PREPRINT

NASA THE 16-66098

UK-5 VAN ALLEN BELT RADIATION EXPOSURE

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OCTOBER 1972



GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

(NASA-TM-X-66098) UK-5 VAN ALLEN BELT
RADIATION EXPOSURE: A SPECIAL STUDY TO
DETERMINE THE TRAPPED PARTICLE INTENSITIES
ON THE UK-5 SATELLITE E.G. Stassinopoulos
(NASA) Oct. 1972 226 p CSCL 03B G3/29 47345

UK-5 VAN ALLEN BELT RADIATION EXPOSURE

A special study to determine the trapped particle intensities on the UK-5 satellite with spatial mapping of the ambient flux environment

by

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October 1972

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Foreword

Vehicle encountered electron and proton fluxes were calculated for a set of nominal UK-5 trajectories with new computational methods and new electron environment models. Temporal variations in the electron data were considered and partially accounted for. Field strength calculations were performed with an extrapolated model on the basis of linear secular variation predictions. Tabular maps for selected electron and proton energies were constructed as functions of latitude and longitude for specified altitudes. Orbital flux integration results are presented in graphical and tabular form; they are analyzed, explained, and discussed.

This study was performed in order to assist in the finalization of the UK-5 orbit which will be based upon the weighing of radiation effects on the scientific experiments against aerodynamic considerations affecting the orbit lifetime.

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Introduction

The planning for the UK-5 satellite provides for a circular equatorial flight path at about 550 kilometers altitude, in contrast to the UK-4, which was launched in a circular but nearly polar trajectory at the same altitude.

To thoroughly evaluate the radiation environment at or near the geographic equator, two inclinations and three altitudes were considered in this study (for more details see Appendix A).

The new orbital configuration minimizes the region of trapped radiation encountered by the vehicle. The actual range of B and L, as calculated with the selected field model for the specified epoch, is given by the respective extrema listed in Table 1 and plotted in Figure 1 as a function of altitude for each inclination.

The relatively narrow L band indicates that only the inner zone trapped particles are encountered. A new inner belt electron model AES (<u>Teague and Vette</u>, 1972) was used in the calculation. Although additional epochs will be available later, the only one presently available is October 1967. Since the model contains a Starfish residual component at some L values, it was necessary to insure that this component, which will not be present in December 1973, would not affect the calculations. The time at which the Starfish component has decayed to levels where it is masked by the

natural electron fluxes has been determined by <u>Teague and Stassinopoulos</u> (1972) as a function of energy and L. Using these times and an exponential decay determined from experimental data (<u>Stassinopoulos and Verzariu</u>, 1972), this component was removed from the calculation.

In constructing the AE5 model, it was possible to infer a change of the quiet time inner zone flux levels as a function of the solar cycle. Since epoch October 1967 is more equivalent to the 1971-2 period than the December 1973 launch of UK-5, the actual fluxes may be somewhat lower than those calculated here. This will be indicated by increasing the uncertainty factor attached to these results in the same manner as done before with UK-4 (Stassinopoulos, 1972) where the uncertainty is proportional to the time spent at a given L value and to the average expected variation in the intensities.

All comments, remarks, or references made for the UK-4 in regards to proton fluxes, their models, spectra, calculations, and uncertainties, are still valid at this time and apply equally to the UK-5. Similarly, the classification of orbit integrated spectra is still relative, based on an overall evaluation of near earth space in terms of circular trajectories between equatorial and polar planes.

Appendix A contains pertinent information on units, field models, trajectory generation and conversion, etc. Two new sections, Appendixes B and C, have been added to this report relating to the enclosed tables and plots, explaining their format and describing their data.

The present study includes tabular mappings of instantaneous proton and electron fluxes over a narrow region about the geographic equator. The mapping was performed for the three selected altitudes and for four proton and three electron energy levels.

A further addition to the output data and the reference material usually included in our reports is:

- a) a projection of the satellite trajectory on a world map grid drawn in Miller cylindrical coordinates, where the start of each successive orbit (revolution) is sequentially numbered,
- b) a trace of the flight path in magnetic B-L space after conversion from geocentric geographic (geodetic system) to geocentric geomagnetic (B-L system) coordinates.
- c) computer produced exposure analysis table,
- d) computer produced time account table.

Novel features in our old tables, besides improved headlines and labels, are:

- a) New constant L-band intervals on the first output table, extending now to L=8.2,
- b) L-band tables also generated for protons,

- c) complete description of low energy protons included as a standard procedure in all studies,
- d) spectral distribution given also in average orbit-integrated instantaneous fluxes.

At this point we should emphasize that our calculations are only approximations due to the large uncertainties in future flux levels; as always, we strongly recommend that all persons receiving parts of this report be advised about this uncertainty (see last paragraph of Appendix A).

Finally, an explanation regarding the attribute "standard", frequently used in the reformatted OFI (Orbital Flux Integration) Study Reports.

The term is applied as a modifier to parameters, constants, or variables in order to indicate or refer to some specific value of these quantities, a value that had been used without change over extended periods of time. Although override possibilities do exist in the OFI system, a routinely submitted production run will, by default option, always use these "standard" values. The term is also used in reference to established forms, style, processes, or procedures, as for example, "standard tables", "standard plots", "standard production runs", etc. A list of some quantities, values, or expressions modified by "standard" is given in Table 2.

Results: Analysis and Discussion

The outcome of our calculations is summarized in Tables 3 to 62, which are all computer produced; they include some new additions as well as some expanded or improved versions of previously routinely issued standard tables. The tables are arranged in four sets, where every set pertains to one specific type of table. All sets except the last contain three similar sections consisting of six tables each: one section for low energy protons, one for high energy protons, and one for electrons, in that order.

The first set is composed of the L-band tables, the second of the Spectral Distribution and Exposure Index tables, and the third of the tables of Peaks. The output is completed by the fourth set. It contains six tables which consist of two parts: the "Exposure Analysis" summary and the "Time Account" breakdown. See Appendix B for a thorough explanation of the tables and a detailed description of their data. Figure 2 is a guide to the table arrangement as produced for a single trajectory by a standard production run of our Orbital Flux Integration (OFI) program UNIFLUX.

Some of the tabulated data is computer plotted in Figures 4 to 57. The plots are identical to those issued in past studies; their number only has been increased by including the low energy protons. As with the tables, the plots are arranged in four sets, where each set pertains to

one specific type of plot. Again, all sets except the last contain three similar sections: one section for each type of particle considered.

The first set of plots is composed of Time and Flux Histograms, the second of Spectral Profiles, and the third of Peaks per Orbit, consisting of eighteen plots each (1 set = 3 types of particles x 6 trajectories). The fourth set pertains to flight path data and should contain two sections of six plots each: one section of World Map Grid Projections, and one of B-L Space Tracings. However, because of system changes, only two plots of each type were produced at the time of this writing. They are shown in Figures 58 to 61. Appendix C describes and explains the plots. Figure 2A is a guide to plot arrangement as produced for a single trajectory by a standard production run.

I. Trajectory Data:

See Figures 58, 59 for World Map Projections and Figures 60, 61 for B-L Space Tracings.

The relative orbit period determines the nodal precession of the trajectory. For circular flight paths the period is a simple function of altitude (actually geocentric distance). At the low altitudes proposed for the UK-5, the periods range from about 1.56 to about 1.63 hours with corresponding precessions from 23.4 to 24.4 degrees approximately. Whereas precession has an important effect on inclined circular or elliptical trajectories, it does not affect near equatorial circular flight paths to any significant degree, because no "skipping" over some higher intensity regions of trapped particles can occur. Simulating UK-5 mission for a total flight duration of 48 hours is therefore more than adequate to insure good coverage and sampling.

For reasons explained elsewhere, only two of the six trajectories generated were projected and traced: the $0^{\circ}/450$ km and the $3^{\circ}/650$ km. The world map projections for the 0° inclination are, of course, all falling on the equatorial grid line. The orbit numbers appear at the starting point of each of the 10 revolutions plotted. At 3° inclination, the starting points are the same but appear covered up by the extended width of the projections.

On the B-L graph, the five equatorial orbits plotted fall again onto each other, forming the depicted pattern and crossing the magnetic equator at the two positions shown. The 3° inclination orbits have moved down in B and up in L because of the altitude increase, but also display the spreading or displacement of the orbits because of precession effects.

II. Spectral Profiles:

For plotted data consult Tables 21-38.

For plotted data consult Figures 22-39.

The integral spectra presented in this report are orbit integrated, statistically averaged trapped particle spectra, characteristic of the specific trajectory that produced them.

For a constant altitude, the orbit integrated fluxes of an inclined trajectory are somewhat greater than those of an equatorial flight path in the regions of space considered in this study. This is true for all energies.

While for the investigated UK-5 orbits the inclination dependence of the fluxes is very small (the inclination only varies by 3°), their variation with altitude is substantial. Thus, for both inclinations, the intensities rise rapidly when altitude is increased, namely by about an order of magnitude for every 100 kilometers. All particles are equally affected.

The spectral distributions of orbits with constant altitude are very similar for both inclinations, that is, shape and form of their spectral curves are almost identical. However, the spectral dependence on altitude is distinctly noticeable, especially for the low energy protons and the electrons, where a gradual softening may be observed when altitude is increased. Apparently, the high energy protons are not very sensitive to moderate altitude variations at these heights.

It is advisable to ignore the extrapolation from 4 Mev down to 3 Mev for the high energy proton fluxes (AP6). These values appear excessive and should be replaced with corresponding fluxes from the low energy model (AP5).

Noteworthy are the electron spectra obtained from the new environment model AE5, especially with regards to the steep fall-off to zero flux for E > 4 Mev. The apparent cutoff at about 4.5 Mev is probably due to the complete removal of the Starfish artificials, assuming no naturals exist with energies E > 4.5 Mev.

III. Peaks per Orbit:

Tabulated data is contained in Tables 39-56.

Plotted data is shown in Figures 40-57.

The absolute peaks presented in this report have been obtained for standard OFI (Orbital Flux Integration) energies: E > .1 Mev for low energy protons, E > 5. Mev for high energy protons, and E > .5 Mev for electrons.

Peaks vary with inclination and altitude. Even as small a change in inclination as that of the proposed UK-5 orbits (from 0° to 3°) produces a substantial difference between the extremes P_{max} and P_{min} of a peak curve. Figure 3 shows the ratio of P_{max} to P_{min} for the three types of particles and for all trajectories and inclinations. The inclination dependence appears to be strongest at the lower altitudes, especially for the low energy protons, but the fluxes there are very small. As altitude is increased, the extremes approach each other and the ratio

shrinks. Obviously, the extremes of the equatorial orbits are not very sensitive to height. Although the cyclic daily peak variation is greatly enhanced for the inclined orbits, the data indicates that for a given altitude the mean value of the peaks is about the same for both inclinations.

Besides the apparent dampening effect on the oscillations of the peak curves, an upward change in height produces a rapid rise in the encountered peak fluxes. This aspect of the altitude dependence may be important because the average rate of intensity increase observed in the data is close to one order of magnitude per 100 kilometers, regardless of inclination. Specifically, the intensities rise by the factors listed below:

0° & 3°	Low En. Pr.	Hi En. Pr.	Electr.
450 km to 550 km	~16	~6	~10
550 km to 650 km	~ 6	~6	~10

A peculiar feature of the peak curves is the sharp drop in the flux values at certain altitudes and inclinations. As far as can be determined, the data that produces these dips appears valid in all cases. If it were not for the equatorial inclination, the assumption could be made that those particular orbits miss some of the higher intensity regions populated by the particles in question. But that seems unlikely in this case.

Evidently the peak contours follow a periodic pattern based on an approximately daily cycle of about 14 to 15 revolutions (See: "I. Trajectory Data" for more detail). Since the investigated trajectories are circular, no major changes are expected, assuming stable orbits and no atmospheric drag effects.

IV. Tabular Flux Maps:

Electron and high energy proton maps were constructed by calculating the instantaneous environment fluxes at lattice points 2 degrees in longitude and 1 degree in latitude, for a narrow band of ±5 degrees about the equator all around the globe, and for the three specified altitude levels. The same models of field and environments were used as in the orbital flux integrations (see Appendix A) and for the same epoch.

Maps were produced for the following electron and proton energies:

> E _e (Mev)	> E _p (Mev)
.1	3.
.2	5.
.5	50.
	100.

Missing map segments were discarded because they did not contain any fluxes. The uncertainty factors of the models apply to the obtained intensities; they are about a factor of 2 for both types of particles.

It should be noted that although decay was applied to the electrons, a comparison with undecayed fluxes showed no effect at all, which implies that the mapped positions lie well beyond the limits of cutoff time, even at the epoch of the AE5 model (October 1967), for all energies considered.

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APPENDIX A

General Background Information

For the selected UK-5 trajectories, orbit tapes were generated with the standard integration stepsize of one minute, and for a sufficiently long flighttime, so as to insure an adequate sampling of the ambient environment. Considering the period of the UK-5 orbits, which determines the rate of flightpath precession, a 48-hour flight duration is sufficient to provide the required coverage; it would insure an ascending and a descending pass every 10 to 15 degrees apart in longitudinal displacement. (For more detail, see: Results, I. Trajectory Data.) The following circular trajectories were thus produced:

$$i = 0^{\circ}$$
 x x

The orbits were subsequently converted from geocentric polar into magnetic B-L coordinates with McIlwain's INVAR program of 1965 (Hassit and McIlwain, 1967) and with the field routine ALLMAG by Stassinopoulos and Mead (1972), utilizing the IGRF(1965) geomagnetic field model by Cain and Cain (1971), calculated for the epoch 1970.0.

Orbital flux integrations were performed with Vette's current models of the environment, the new AE4-AE5 for outer and inner zone electrons, the AP6-AP7 for high energy protons, and the AP5 for low energy protons. All are static models which do not consider temporal variations; this includes the new electron models, at least as far as the present calculations are concerned. See text for further details on this matter.

The documents that describe these models are listed below:

Model	Reference
AE4	Singley and Vette, 1972
AE5	Teague and Vette, 1972
AP5	King, 1967
AP6	Lavine and Vette, 1969
AP7	Lavine and Vette, 1970

The results, relating to the omnidirectional, vehicle encountered, integral, trapped particle fluxes, are presented in graphical and tabular form with the following unit conventions:

1.	Daily a	averages	:	total	tra	ajecto	ry	integrated	flux
				averag	ged	into	pai	rticles/cm ²	day,

2.	Average	instantaneous	time integrated average, istic of the orbit, in particles/cm ² sec,	character-
			F	

3.	Totals per orbit	: non-averaged, single-orbit integrated
		flux in particles/cm ² orbit, and

where one orbit = one revolution.

Please note: we wish to emphasize the fact that the data presented in this report are only approximations. We do not believe the results to be any better than a factor of 2 for the protons and a factor of 3 for the electrons. It is advisable to inform all potential users about this uncertainty in the data.

APPENDIX B

Description of Tables

a) The L-band Table:

The table contains 36 L-bands L_i of equal size, covering the range from L = 1.0 to L = 8.2 earth radii in constant increments of .2 earth radii. For the L-intervals determined in this way, orbital spectral functions

$$N(>E, E_{N}; L_{i}) = \begin{bmatrix} \sum_{k} J_{k}(>E; B) \end{bmatrix} L_{i} / \begin{bmatrix} \sum_{k} J_{k}(>E_{N}; B) \end{bmatrix} L_{i} \qquad \begin{array}{c} i=1,36 \\ L_{i}: L_{i} < L \le L_{i+1} \end{array}$$
 (1)

are obtained at nine arbitrary energy levels such that the integral spectrum is equal to 1 for $E = E_N$, where E_N was taken to be .1, 5., and .5 Mev for low energy protons, the high energy protons, and the electrons, respectively. The notation L_i is used to indicate the L-band from L_i to L_{i+1} , while J(>E;B) is the integral, omnidirectional flux yielded by the environment model used in the calculation. The spectral functions N are evaluated for the total flight time simulated in the study, where the summing index k selects all trajectory points lying in each L_i .

The corresponding orbital distribution functions, representing fluxes above energy E_N , are given by

$$F(E; L_i) = \Delta t \left[\sum_{k} J_k(>E; B) \right]_{L_i}$$
 (2)

where Δt is the constant time increment of orbit integration, whose

standard value is 60 seconds. The distribution functions are fluxes accumulated in their respective $L_{\bf i}$ bands over the total flight period considered.

The orbital distribution functions are listed on the table at the bottom of each L-interval and are labeled "NORMFLUX". The nine integral energy levels selected for the low and high energy protons and for electrons are given below in units of "Mev" for all particles:

Pr	otons	Electrons
Low	High	
.1*	3.	0
, 5	5.	.5*
.9	10.	1.0
1.1	15.	1.5
1.5	20.	2.0
2.0	25.	2.5
2.5	30.	3.0
3.0	50.	4.0
3.5	100.	5.0

where the normalization energy is indicated by a star (*).

b) The Spectral Distribution and Exposure Index Table:

This table has three parts:

I. The spectrum $\Psi_j(\Delta E)$ given in % for energy intervals that correspond to the energy levels of the previously discussed table (L-bands), with two special columns showing the total orbit integrated flux for these energy intervals averaged into instantaneous I_j^s and daily I_j^D intensities

where

$$F(>E_1) = C \sum_{k=1}^{k_0} J_k(>E_1;B,L)\Delta t$$
 (4)

$$I_{j}^{D}(\Delta E) = C \sum_{k=1}^{k_{0}} \Delta t \left\{ J_{k}(>E_{j};B,L) - J_{k}(>E_{j+1};B,L) \right\}$$
 (5)

$$I_{j}^{s}(\Delta E) = I_{j}^{D}(\Delta E) / 86400$$

$$C = \frac{24}{T} , T = k_{0} \Delta t$$
 $i=1,36$

and where k_0 is the upper limit of k. It is equal to the total number of time increments considered in the study.

II. The composite orbit spectrum for integral energies, giving the total vehicle encountered fluxes averaged into daily $S^D(>E_j)$ and instantaneous $S^S(>E_j)$ intensities for 15 discrete energy levels:

$$S^{s}(>E_{j}) = S^{D}(>E_{j})/86400$$
 (8)

where the summation is performed for the entire simulated mission duration T and includes all fluxes with energies greater than E_{i} .

III. The exposure index, given (for the normalization energy used in the L-band table) at nine successive intensity ranges R_n one order of magnitude apart, in terms of exposure duration $\tau(R_n)$, converted to hours, and total number of particles $\phi(>E_N;R_n)$ accumulated while in that intensity range. The notation R_n is used to indicate the intensity range from r_n to r_{n+1} :

$$\phi(>E_{N};R_{n}) = \tau(R_{n}) \theta(>E_{N};R_{n})$$

$$R_{n}: r_{n} < r \le r_{n+1}$$
(9)

$$\theta(\geq E_{N}; R_{n}) = \left[\sum_{\ell} J(\geq E_{N}; r)\right]_{R_{n}} / \zeta_{n}$$
(10)

$$\tau(R_n) = \Delta t \zeta_n \tag{11}$$

where ζ_n is the upper limit of ℓ in each R_n .

c) The Table of Peaks:

In this table, the absolute instantaneous peak flux encountered during each successive orbit (revolution) is listed for the indicated energy range. There are nine columns on this table. Column 1 is an orbit counting device, based on the period of the orbit when the trajectory lies in the equatorial plane and is circular, on the physical perigee in all elliptical cases, and on the equatorial crossing for circular inclined trajectories. Column 2 gives the peak flux. Columns 3, 4, and 5

indicate the spacecraft position in geocentric coordinates at which the peak was encountered, while columns 6, 7, and 8 determine respectively the time and the magnetic B-L coordinates for this event. It should be noted that all simulated flight paths for the purpose of orbital radiation studies start at t_0 = 0 hours. Finally, the last column indicates the total flux encountered during that particular orbit. It is advisable to disregard the last line on this table because many times that orbit is incomplete and the fluxes or positions shown do not correspond to true peaks.

d) The Exposure Analysis Summary:

The summary is contained in the left half of this last table of each set as a semi-independent and separate table. It indicates what percent of its total lifetime T the satellite spends in "flux free" regions of space, what percent of T in "high intensity" regions, and while in the latter, what percent of its total daily flux it accumulates.

In the context of this study, the term "flux free" applies to all regions of space where trapped particle fluxes are less than one proton or electron per square centimeter per second, having energies E > .1, E > 5., and E > .5 Mev for the low energy protons, the high energy protons, and the electrons, respectively; by definition, this includes all regions outside the radiation belts. The concept of "trapped particle fluxes" is meant to include stably trapped, pseudo-trapped, and transient fluxes, as long as they are part of or contained in the environment models used and, in the case of transients or pseudos, their sources

are considered powerful enough to supply them in a substantial and ever present way.

Similarly, we define as "high intensity" those regions of space where the instantaneous, integral, omnidirectional, trapped-particle flux is greater than 10^3 protons with energies E > .1 or E > 5. MeV, and greater than 10^5 electrons with energies E > .5 MeV.

The values given in this table are statistical averages, obtained over extended intervals of mission time. However, they may vary significantly from one orbit to the next, when individual orbits are considered.

e) The Time Account Breakdown:

The breakdown of orbit time is given in the right half of the last table of every set, in the same semi-independent form as the summary. The table shows the total lifetime spent by the vehicle in the inner zone T^i (1.0 < L \leq 2.5) and the outer zone T^0 (2.5 < L \leq 7.0) of the trapped particle radiation belt, and also the percent duration spent outside that region (L > 7.0), which is denoted by T^e (T-external), such that for any mission

$$T = T^{i} + T^{o} + T^{e} = 100\%.$$

The confinement of the outer zone within the boundary of the L=7.0 volume is arbitrary and has no physical meaning. It is intended only as a simplification to facilitate our calculations. The region considered "external" (L > 7.0) in this study is still partially a domain of the outer zone, at least as far out as L=11.0 earth radii, accord-

ing to the latest electron models (Singley and Vette, 1972).

A last item on this table: the inner zone time $T^{\hat{1}}$ may be subdivided into two parts: the percentage of time spent inside the region $(1.0 < L \le 1.1)$ and inside the region $(1.1 < L \le 2.5)$.

APPENDIX C

Description of Plots

a) The Time and Flux Histogram:

This plot shows two curves superimposed on the same graph, namely, one each for the variables "time" and "flux". Both are given as functions of the parameter L (earth radii) within the range $1 \le L \le 7$, on a semilog scale. The plot depicts: (1) by a plain curve the characteristic trajectory intensities as obtained from the orbital integration process in terms of averaged, instantaneous, integral particle fluxes above a given energy, over constant L-bands of .1 earth radius width, and (2) by a contour marked with symbols the percent of total lifetime (%T) spent in each L-interval. The logarithmic ordinate relates to the time-flux variables. The printed numbers are powers of 10 and pertain to the fluxes; the scale values for the time curve are given in the upper part of the ordinate label; from 10^{-3} to 10^2 percent of T. The type of particles, their integral energy, and the units, are all given in the lower part of the label. The label on top of the graph lists some useful information about the trajectory.

b) The Spectral Profile:

A graphical presentation of the final spectral distribution, obtained from the orbital integration process. The plot is a semi-log graph, where the abscissa is a linear energy scale for integral particle energies

 $\rm E_{\rm O}$ in Mev, and the ordinate is a logarithmic scale for the orbit integrated fluxes, given in daily averages for energies greater than $\rm E_{\rm O}$; the printed scale values are powers of 10.

c) Peaks per Orbit:

Here the absolute peak intensities, encountered per period, are plotted for the duration of the total flight time considered (1 period = 1 revolution = 1 orbit). The logarithmic ordinate relates to instantaneous particle fluxes of the environment at the indicated energy threshold, while the abscissa is a linear orbit enumeration.

d) World Map Grid Projection of Orbits:

The trajectory is plotted for several revolutions on a global map produced by a Miller Cylindrical Projection. The contours of the continents have been omitted for clarity. The positions of either equatorial crossing, of physical perigee, or of period commencement are indicated by numbers identifying the orbits shown in this graph. For all trajectories, the distance between successive sequential numbers is a measure of the orbit precession.

e) B-L Trace of Orbits:

This plot shows a trace of the trajectory in B-L space on a semi-log scale. Several orbits are usually depicted, each identified by its sequential number. The magnetic equator is entered on all plots. The logarithmic ordinate relates to the field strength B in gauss; the

printed values are exponents of 10. L is given in earth radii on the linear abscissa.

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TABLE 1

<u>UK-5</u>

Field Model # 5 Epoch 1970.0

Minimum and Maximum Values of Magnetic Coordinates B and L Attainable by the Indicated Circular Trajectories

Alt.	Incl.		
450. k	m Q°	.22725 \lesssim B (gauss) \lesssim .33723	$1.02 \lesssim L \text{ (e.r.)} \lesssim 1.20$
	3°	$.22269 \lesssim B \text{ (gauss)} \lesssim .34433$	$1.00 \lesssim L \text{ (e.r.)} \lesssim 1.23$
550 k	m 0°	.21722 ≤ B (gauss) ≤ .32124	1.03 ≤ L (e.r.) ≤ 1.22
	3 °	.21287 \lesssim B (gauss) \lesssim .32787	$1.02 \lesssim L \text{ (e.r.)} \lesssim 1.25$
650 k	m O°	.20781 ₹ B (gauss) ≤ .30619	1.05 ≤ L (e.r.) ≤ 1.24
	3°	.20381 ≾ B (gauss) ≤ .31281	1,03 ≤ L (e.r.) ≤ 1.26

TABLE 2

Partial Listing of Parameters, Constants, Variables, or Expressions

designated as "standard" in the text

- 1. Standard Tables: set of tables as listed in Figure 2, in the regular format described in Appendix B.
- 2. Standard Plots: set of plots as listed in Figure 2A, in the regular format described in Appendix C.
- 3. Standard Production Run: a production run processed on default options.
- 4. Standard Integration Stepsize: constant time increment of orbit integration: 1'(60").
- 5. Standard Energies: low energy protons E > .1 Mev, high energy protons E > 5. Mev, and electrons E > .5 Mev.
- 6. Standard Procedure: established procedure normally followed vs. procedure followed in special cases.

ENERGY 1.34E .00 1.34E .00 1.00E 1.00 1.00E 1.00 1.00E 1.00 1.00E 2.00 2.00E 2.00 2.00E 5.00 1.34E 5.00 1.34E ENERGY 1.34E ENERGY 1.34E ENERGY 1.34E 1.00 0.0 1.00 0.0 2.00 0.0	2	A 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		# # V	# 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	Z ! Z ! Z ! Z ! X ! X ! X ! X ! X ! X !	м 4 % 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* d	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
**************************************		24 000000000000000000000000000000000000		00000000000000000000000000000000000000	₹ • • •		00000000000000000000000000000000000000		000000000	0000000000	
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1.00 2.50 3.00 2.50 3.00 5.00 5.00 1.00 1.00 1.00 2.00 2.00		A 44 0.00 0 4 44 0.00 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	₹ ₹	0000000 0 m 4 00	2 i 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0000000	00000000	
1.50 2.00 3.00 3.00 5.00 NORMFLUX= CEVECS VMEV; SOO 1.00 2.00 2.00 2.00	0000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 0 0 0 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0		0000000 0 H 0 0	₹ 9		0000000 0 H 4	000000 0	000000	000000 0 4	7 P
2.00 3.50 3.50 5.00 5.00 NDRMFLUX= FNERSO 1.00 1.00 1.00 1.00 1.00 2.00 2.00	00000 0 0 m 000	24 000000 0 4 m 00		0.000000000000000000000000000000000000	₹ 9		2 l 2 l 2 l 2 l 2 l 2 l 2 l 2 l 2 l 2 l	000000	00000	00000 0 4	- F - Z - Z - C - C - C - C - C - C - C - C - C - C
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5.00 5.00 NORMFLUX= ENERGY CEVELS VMEV) 1.00 1.00 1.00 2.00 2.00 2.00 2.00 3.00 3.00		# *** O *** O *** O *** O ***		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	₹ 9 * *	000 0 m4 0000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000		0000	7 N Z N
5.00 NDRMPLUX= 3.14E ENERGY = 3.14E LEVELS = 3.14E 1.50 0.0 1.50 0.0 1.50 0.0 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 3.	0 4 0 2 4 0 0 0 0 0 0 0 0 0	# * Z * # * O * O * O * O * O * O * * O * O *		0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0 0 0 0 0 0 0 0 0 0	0 0 m 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 T 4	000		20 0	7 0 0 0 m #
ENERGY 13-14 LEVELS 13-4 LEVELS 13-4 LEVELS 13-4 LEVELS 13-4 LEVELS 13-4 L 1-1 LEVELS 13-4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.0 M A G N E #W.B.A. O.	0.0 1 C 6.0 C	C.O E L L 4.2-4.	₹ 9 * †	о ш 4 ос о н 6 ос п 4	0.0 7 I A 8.8.5	•	o.	0 7	Z 1 0 • 0 0 • 0 0 • 0 0 • 0
F N E N G N G N G N G N G N G N G N G N G	× 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 X A G N E 49. 4. 4. 9. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	10-4-5	E L L 4.2-4. 6.0	* 9 * 4	щ 4 0 с 1 4 0 с 1 4 0 с	1 4 5 0 5 1			4.	Z 9 + 0 + 0 + 1 +
LEVELS * 3.4 .0 .0 .500 1.00 1.00 1.00 2.00 2.00 2.50 3.50 0.00 0.	• 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	*## # # # # # # # # # # # # # # # # # #	5.4-2	4.2-4.	÷	4 0 0 0	4.8-5.	E A R I	FADI	\$-4.	45.6-5
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000	0.0	•	0.0	0.0	0.0		* *5.0-5.	# U = U = U = O = O = O = O = O = O = O =		
8 1 1 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000		0.0		٠,	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	2	,	0.0	0.0	0.0	0.0	••
- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0	0.0	0.0	0.0	•	0	0.0	0.0	0.0	0.0
000	0.0	0.0	0.0	٥ ·	0.0	0.0	0 0	0.0	0.0	0.0	•••
000	•	o •	0.0	0.0	0.0	٥	0 0	0 0	•	D (•
• (000	9 6	000) (9	9 9	9 6	•			9 9
	•		•		200	0			. 0	0.0	
٥	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX= 0.0	0.0	0 * 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY L + B	s 0 2 ₹	W Z S A M	\$ 01±	E F	× × 0.		z	E A A H	A A	-	8 0 Z V 0 I
9-8-5+	.0* *6.0-	* *6.2-6.	4-6.6	6.6-6.8	.8-7-0	47.0-7		*7.4-7.	47.8	\$7.8-8.0	8.0-6.2
> (MEV)											
0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
-	0*0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	D (•	0 0	٠ •	0.0	o «	•	•	0.0	0.0	9.0
1 60 6	9 6	9 6		9 6				0 0			•
	•	0.0	0	0	•	0	0:	0.0	0	0.0	0.0
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	;	•	•		•	2	•	•	•	•	•

3: CAINFLANCEL LAD-FROM DOGO 10/48 A TIMER 1970.0 FA SEOKM ## B/L OPRIT TAPE: TORIG. ## DEPTON ## DEPTON - 594 KF ** MAGNETIC COOPDINATES B AND L CIMPUTED BY INVAMA OF 1972 WITH ALLMAS, MODEL ** VEHICLE : UK-S 0/350 ** INCLINATION* ODEG ** DFRIGEE SSOK* ** APROSEE

经存存的 经处存帐款 非常 法有 法存款 经存款 化 化 医有种种的 化水水 ELECTRANS

** SPECIAL DISTRIBUTION - NORMALIZED BY FILEX OF FLERORY APPAIND THAN AND MEV **

ENERGY	2 4 80	S 0 7	→ Ⅲ ∠ ♡ ▼ ▼	v.	ئے اِنٹا عالم	2 4 0		<i>z</i> .	ı.	- 4		r c. 2 4
LE VELS >(NE V)	.0-1.	*1.2-1	.4* *!.4-1.6*	*1.5-1.8*	*1.8-2.0*	#6*0*8*	*2.2-2-44	#5.6-2.6*	*******	*2.8.3.0*	* 4.0-4.2	*
. 0	2.01E 00		0.0	0*0	0.0		•	•	0	c • c	ن ن	0.0
• 50 0	1.00E 00	0.0	0.0	0.0	0.0	•		•	ن ه ن	0.0	, c	0.0
1.00	7.856-01		0.0	0.0	0.0				ت و:	0.0	0.0	0.0
1.50	6.685-01	0.0	0.0	0.0	0.0				0.0	0.0	0.0	0.0
5.00	5.12E-01		0.0	0.0	0.0				0.0	c.•0	0.0	0.0
2.50	3.378-01		0.0	0.0	0.0				0.0	0.0	0.0	0
3.00	2.155-01		0+0	0.0	0.0		•	•	6.0	0.0	0.0	0.0
00.4	2.37E-02		0.0	0.0	0.0	0.0	0.0	0+0	ن• ر <u>.</u>	0.0	0.0	0.0
2.00	. 0.0	0.0	0.0		0 • 0	•	•	•	0.0	0.0	0.0	c • c
NGRMFLUX=	3.51E 05	0.0	0.0	0 • 0	0.0	0.0	0.0	0.0	ن. ن	C • C	0.0	0.0
ENERGY	2 K E I J	ر د د	H W W W	s .	1 1	Q Q Q	or or F	z -	⊬ G	6	-	V. C Z 4
TEVELS	4-3-6	#: #:	* 3 . 8 - 4 .0 *	4 - 2	* 4	*****	*4.6.1.	Œ	1 0 4	1	() () () () () () () () () ()	α
>(ME V)				!	!		•	! }		• ·		
•	0*0	0.0	0.0	. 0.0	0.0		0.0	•	0	0.0	0.0	c.
• 500	0.0	0.0	0.0	•	0.0		0.0		0.0	٥•0	0.0	c.c
1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	•	0.0		0.0	•	ن• ن	c c	0.0	0.0
2.00	0.0	0.0	0.0	•	0.0	•	0.0	•	c • c	c • c	0.0	c • c
2.50	0.0	0.0	0.0	•	0.0	•	0.0	٠	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	٠	0.0	•	0.0	0.0	0.0	¢•0
4.00	0.0	0.0	0•0	•	0.0		0.0		0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	•	0.0	•	0•0	0.0	6+0	٥.
NORMFLUX	0.0	0.0	3.0	0.0	0*0	0.0	0.0	0.0	0.0	0.0	0.0	Ǖ0
ENERGY	L - 8 A N	s o z	CMAGNET	0	1 1 1	* 0 4 0	14 ! 	z	e G	L C & G	1 1	
LEVELS >(MEV)	*5.8-6.0*	*6.0-6.	• 24 #5 • 216 • 44	9.0	*6.5-6.8*	#6*8-7*0*	*7.0-7.2*	*7.2-7.4	* 19 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	女兄・ケース・アギ	₽	8 0 0 0 dd 4
0.	0.0	0*0	0.0	0.0		0.0			0.0	0.0	•	0.40
. 500	0.0	0.0	0.0	٠		0*0			0.0	c c	•	0.0
1.00	0.0	0.0	3.0	•		0.0			0.0	0.0		0.0
05**	0.0	0.0	0.0			0.0		٠	0.0	0.0	•	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0*0	0.4
2.50	0.0	0.0	0.0	٠		0.0	٠	•	0.0	0.0	٠	0.0
3.00	0.0	0.0	0 • 0	٠		0.0	٠	٠	0.0	Ç.	•	0.0
00.4	0.0	0.0	0.0	٠		0.0	٠	٠	0.0	0.0	٠	. 0.0
2.00	0.0	0.0	0.0	٠		0.0		٠	0.0	0.0		0.0
		•										
	•	0.0	o • o	0.0	0.0	0	0.0	0.0	C •	0.00	0.0	c • 0

650KW ## B/L ORBIT TAPE: TD8161 ## PERIOD= 1,629 ## ** INCLINATION OFFG ** PEPIGFF 550KM ** APOGEE* ** VZHICLE : UK-5 0/650

经法律证据 经存款的 经存货的 经存货的 计存储器 医多种的 ** SPECTPAL DISTRIBUTION - NDRMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV ** FL ECT RONS ****

ENERGY LEfels > (MEV)	L - 8 A N *1.0~1.2*	N D S	(M A G N.	6 T I C	SHFLL.	# #2.0-2.2#	M E T E R #2.2.2.2.4	1 N * 2.4-2.	E A R T H 6* *2.6-2.8*	R A D I	1 1) L * *3.0-3.2	A
•	2.93€ 00	4 . 355			•	0.0	0.0	0.0	•	0.0	0.0	0.0
.500	1.00€ 00	1 . CCE	00 000			0.0	0.0	0.0	•	0.0	0	0.0
1.00	6.86E-01		0.0		•	0.0	0.0	0.0	•	0.0	0.0	0.0
1.50	5.335.01		0.0			0.0	0.0	0.0	•	0.0	0.0	0.0
2.00	3.538-01		0.0		٠	0.0	0.0	o•0	•	0.0	3.0	0.3
2.50	1.858-01	3.0	0.0		•	0.0	0.0	0.0		0.0	0.0	0.0
00.6	9+32F-02		0.0		•	0	0.0	0.0		0.0	0.0	0.0
00**	4.205-03		0	9	0.0	0	0	0.0	0.0	0	0.0	0.0
2*00	0.0		0.0		•	0.0	0.0	0.0	•	0.0	0.0	0.0
VORMFLUX*	3.135 06	1.205	04 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY	ı	81	∠ 5 ▼ ₹	U II	8 H Fi	4 4		<i>7</i>	Ľ	4 4		O Z
L ZY EL S	30.5	*3.6-3	4 40		ė.	*	4	* 4.8-5.	0* +5.0-5,2*	2-5.4	5.4.5	*6.6-5
q	0.0	o o	0,0		G-G		0.0	0	0-0	0.0	0	0.0
2		,			2 6					, ,		
2000	0.	•	0	٠) ·			•	•	•	•	•
1.00	0.0	٠ ٠	0.0	٠	0.0		0.0	•	0	0	D .	0
1.50	••	0	0.0	٠	0.0		0.0	0.0	0 • 0	0.0	•	•
2+00	0.0	J.0	0.0	٠	0		0.0	0.0	0.0	0.0	0.0	0
2+50	0.0	0.0	0.0	4	0.0		0.0	0.0	0.0	0.0	0,0	0.0
3.00	0.0	0.0	0.0	٠	0.0		0*0	0.0	0.0	0.0	0.0	•
4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0•0	0.0	0.0	0.0	0.0
\$.00	0.0	0.0	0.0	٠	0.0		6.0	0.0	0.0	0.0	0.0	0.0
NORMFL UX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FNRRGY	2 4 69	ψ; C)	2 4 5	ا ا	υ Ε κ	4 4	iL ←	<i>Z</i>	⊢	د. ح		Q Z
LE/E_S >(44V)	.6.0	*6.0-6	* *6.2-	4	*6.5-6.8	*	*7.0.7.24	2.7.	4* *7.4-7.6*	9	*7.8-8	* *8.0-8
0•	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	
.500	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	
1.00	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	
1.50	0.0	0.0	0.0	٠	0*0	0.0	0.0	0.0	0.0		0.0	
2.00	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	
2.50	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	٠ .	0.0
3.00	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0		0*0	
4.00	0.0	0.0	0:0	٠	0.0	0.0	0.0	0.0	0*0		0.0	
2.00	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0		••	
	•		•				•				•	4
SOKMTIC XI	0		•	•	•	•	•	•	•	•	•	•

Table to the transfer to the Composite particle envisor of the transfer to the ** DRBITAL FLUX STUDY WITH COMPOSITE PAPTICLE ENVIRONMENTS : VELTES AE1. AE5. AP5. AP5. AP5. AP5. AP7 *** PROCEDURE : UNIFLUX OF 1972 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972. 0 WITH LIFETIAES: E.3.STASSINPPJULS\$?"VE?ZAPIU ** CUIDFF TIMES:

SPECTRAL DISTRIBUTION + NJCMALIZED 3Y JUX OF ENFRGY GPEATER THAN +500 MFV ** EL SCTRONS 有法法法法法检查的法法检查 在外 的复数的 计设备的设备的设备

o ∗

LEVELS >(MFV)	*1.0-1.2*		#1.2-1.4* #1.4-1.6*	.6* *1.6-1	.9* *1.8-2.0*	*2.0-2.2	** *2.2-2.4	*2.4.2	6* *2.6-2.8*	*2.8-3.0	#3.0-3.	2* *3.2-3.4*
•	1.52E 00	0.0	0.0	•	0.0	0.0	٥•٥	0.0		0.5	0.0	
.500	1.00E 00	0.0	0.0	٠	0.0	0.4	0.0	0.0		0.0	ن.	
1.00	8.60E-01		0.0	•	0.0	0.0	0.0	0.0		0.0	0.0	
1.50	7.836-01		0.0		0.0	0.0	0.0	0.0		6.0	٠.٥	
2.00	6+67E-01	0.0	0.0		0.0	0.0	0.0	0		0.0	0.0	
2.50	5+1 1E-01		0.0		0.0	0.0	0.0	0.0	•	0.0	0.0	
3,00	3.815-01		0.0	•	0.0	0.0	Ü	0.0		0.0	0.0	
4.00	8.21E-02		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0		0 • 0	•	0.0	0.0	0.0	0.0	•	0.0	0 • 0	
NDRMFL UX=	4.316 04	0.0	0 • 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	٥٠,	0.0
AD&UNE	2 4 60 - J	8	2 4 1	E 7 1 C	S + :: L	4 4	0: 11: 14: 25:	z 		0 Y 0	~ .	0 X X 00 1
LEVELS V(NEV)	.4-3.	*	-0 ·0*	44	4.2	* * * * * * *	* * 4 • 6 - 4 •	*4.8-5.	# #	*5.2-5.4	#5.4-5.6	* #5.6-5
1												
٠.	0.0	0.0	0.0	•	0.0	0.0		•	0.0	0.0	0.0	
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	0.0	0.0	0.0	•	0.0	0.0		•	0.0	0.43	0.0	
1.50	0.0	0.0	0.0	٠	0.0	0.0		•	0.0	0.0	0.0	
2.00	0.0	0.0	0.0	•	0.0	٥•٠			0.0	0.0	0.0	
2.50	0.0	0.0	0.0	٠	ပ ု ပ	•••			0.0	c.	0.0	
3.00	0.0	0.0	0.0	٠	0.0	0.0		•	0.0		0.0	
4.00	0.0	••	0.0	٠	0.0	٥.		•	0.0	0.0	0.0	
2.00	0.0	0.0	0.0	٠	0			•	0.0	0.0	0	
NORMFLUX=	0*0	0.0	0.0	0.0	o•c	•••	0 90	0.0	0.0	0.0	٥.	0.0
ENERGY	- B A R	s 0	2 9 ¥ W J	ETIC	SHELL	4	⊢ E		11 × 4	α C	1 1 1	1 B A N D S
LEVELS	.9-6.	*6	0-6.2* #6.2-6.	.4* *6.4-5	*6*9-6*9* #5*	7.	* *7+0-7+	*7.2.7*	48 47.4-1-54.	*7.6-7.8	#7.B-9.	0-9+2
>(MEV)												
٠	0.0	0.0	0.0			0.0		0.0			•	0.0
• 500	0.0	0.0	0.0			0.0		0.0			•	0.0
1.00	0.0	0.0	0.0	٠		0.4		0.0				0.0
1.50	0.0	0.0	0.0	٠		0.0		0.0			٠	0.0
2.00	0.0	••	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0	0	٠		•••		0.0			٠	0
00°E	0.0	•	0	•		•		0.0			•	0
00.4	0.0	••	0.0	•		0.0		0.0			•	0.0
8.00	0.0	0.0	0.0	•		0.0		0.0			•	••
NURWE LIXE	0.0	0.0	0.40	0.0	o c	0.0	0*0	0.0	0*0	0.0	0.0	0
1	!	1	,	•		† •			•			•

w *

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** MAGNETIC COORDINATES B AND L COMFUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: CAINELANGEL 143-TERM DOGO 10/58 * TIME= 1970.0 **
** VEHICLE : UK-S 3/550 ** INCLINATION= 3DEG ** PERIGÉE= 550KM ** B/L ORBIT TAPE: TOE247 ** PERIOD= 1.594 **

ENERGY	8 8	0		υ 	¥ €	<	-	z H	⊢	R A 0	1) (1	8 N N N
LEVELS >(MEV)	•0-1-2		* *1.4-1.6*	:	* *1*8	*2°0=5*	*2.2-2.	¢,	* *	8-3	#3°0-3°2#	3,2-3
•	2,195 00	0.0	0.0	•	•		•		2.0	•	٥٠٠	
• 500	1. COE 00	۰	•	٠ 0	0.0	0.0	0.0	0.0	Cŧ €:	9.0	ن ن ن	0.0
1.00		0.0	0.0	•	•				0.00	•	0.0	
1.50	6.336-01	0.0	J•0	•	•			•	0.0	•	0.0	
2.00	4.696-01		0.0	٠			•	•	نځو		0.0	
2,50	2.93E-01	0	0				•		C * C		0.0	•
3.00	1.78E-01		0.0	•	•		•	•	ن• ن		0.0	•
4.00	1.84E-02		0						0.0	•	0*0	
\$.00	0.0		0.0	•			•	•	J*0	•	Ç.	•
NORMFLUX=	4.62E 05	0.0	0	0.0	0.0	0.0	6.0	0.0	ټ ډ	c.	٥ • ٥	0*3
>00 UNU	2 4 0	0 £	2 4 3	-		0	u F	Z.	4	4	-	2
LEVELS >(MEV)	.4-3.6*	††1 *	# #3.6-4.0*	**	* * 4 * 2 = 4	*4-4-6*	*4.6-4.6*	8-5-0	* #5+(1-5+2*	*5.2-5.4*	4-5-6	v
•	0.0	0	0.0	٠			٠	0	ر د د	٠	٠	٠
• 500	0.0	0.0	0.0	•	•		•	·.0	ن ن	٠	٠	•
1.00	0.0	0*0	0 + 0	•	٠		٠	0	ů. C		٠	٠
1.50	0.0	0	3.0	٠	•		٠	6.0	သ ဗ		•	
2.00	0.0	0.0	0 • 0		•		•	ر. و	<u>ن</u> • د		•	
2.50	0.0	0.0	0 • 0	0.0	0.0	0.0	D. O	ن د	O 6.	0.0	0.0	0.0
3,00	0.0	0.0	9 • 0	•	•		٠	č.	<u>د</u> د د		•	•
4.00	0.0	0.0	•	•	٠		•	0	ပ ု ဂ	٠	•	
5.00	0.0	••	0.0	•	•		٠	0	٠,	•	•	•
NORMFLUX=	0.0	0	0.0	0.0	0+0	0.0)•¢	ر. د • ن	J•0	ن • ز	(• c	0.0
ENFRGY	4	ул С	T E E	0 1	SHELL	۷ ۷	H	<i>z</i>	Γ	0 A O	1 1	vn □ 2 ₹
LEVELS	8-6-04	* 6.0	* *6.2-6.4	•	* *6.6-6	*	*7.0-7.2*	2-7.4	* *7.6-7.6*	6-7-8	7.8-9.0	8-0-8
1.45												
•	0.0	0.0	0.0	•	•	c • c	•	•	0• €	0.0	•	•
• 500	0.0	0	0.0			0.0	•	٠	නු දැ	0.0	٠	٠
1.00	0.0	0.0	9 • 0	٠		0.0	٠		0 •€	5.0	٠	٠
1+50	0.0	0*0	0	Q * Q	0.0	0.0	2.0	0.0	0.0	ٽ. • وا	0.0	0.0
2.00	0.0	9	0.0	٠	•	0.0		•	<u>ن</u> د	ζ.	•	٠
2.50	0.0	0.0	9•0	٠		0.0	•		د، د،	6.0	٠	•
3,00	0.0	000	J•0	٠	٠	C • 3	٠	٠	٥•٠	٠ • •	٠	٠
4.00	0.0	0.0	0.0	•		0	•	٠	٠,	0.0	•	•
5.00	0.0	0.0	•	٠	•	٠ د	•	•	0	0.0	•	٠
NORMFLUX	0.0	0.0	0	0 • 0	0.0	C•a	0.0	0.0	.;•.; .;	¢ ¢	ر د	(, • C

ELECTIONS --- --- --- Reserved to the second of the second

LEVELS	*1.0-1.2*	*1.2-1.4	* * 1 • 4 • 1 •	.1-9-11- 49:	3 F E L L	*2*0-2*2*	*2.2-Z*4*	# Z - # - Z • 6	E A K - H	#2.8-3.0#	1) L .	- B A N D
A C	'	: }					٠,					
· .	00.000	100				• :	20.00	200			2.0	200
000	,	200						0 4 6	9	0	0-0	0
2	5.09F-01	0.0			0.0		0.0	0.0	0.0	0.0	0.0	0.0
2.00	3.27E-01	0.0	0.0	0.0	0	0,0	0.0	0	0.0	0.0	•	0
2,50	1.638-01	0.0	0.0	0.0	0.0		. 0.0	0.0	0.0	0.0	0.0	0.0
3.00	7.84E-02	0	0	0.0	0.0		0.0	. 0 • 0	0.0	0.0	0.0	0.0
4.00	3.37E-03	0.0	0.0	0.0	0*0	0.0		0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0*0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX	4.01E 06	1.646	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY	L - 8 A P	, o x	NUVE	E T I C	SHELL	PARAM	E T	Z	EARTH	# O 4 &		O Z ¥ 69 1
LEVELS	# 3 · 4 - 3 · 6 #	# 3.6-3.8#	0.4 -8.60 × × × 0.00 × × 0.00 × × 0.00 × × 0.00 × × 0.00 × × 0.00 × × 0.00 × 0.0	0*.**.*O	24. 44.2-4.45	****	*4.66.4.3*	0 · 0 · 0 · 0 · 0)* - * % 0 + 0 + 0 + 0	*5°2-5°4*	# O * N = # * O #	* * * 5 . 6 - 5 . 5
0	. 0 • 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	••
. 200	0.0	0.0	0.0	. 0 • 0	0.0	0.0		0.0	0.0		0.0	0.0
1.00	0.0	0.0	0.0	0*0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	. 0•0	0.0	0*0	0.0	0*0		0.0	0.0	0.0	0.0	0.00	. 0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•
2.50	. 0.0	0.0	0.0	0.0	0.0	٠		0.0	0.0	0.00		0.0
3.00	0	0.0	0 6	9 9	0.0	0 0	0.0	0.0	0.00	0.0		0
		•			•							
	} } !		i			• 1						
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY	L - 8 A	. O Z	NAGN	ETIC	5 H E t. L	PARAM	ETER	z	EARTH	R. A D I	(-1	0 2 4 8 1
LEVELS	*0.9-8-6*	*	2* * 6.2-6.	4* *6.4-6.	*8*9-9*9# #9*	*6.8-7-0*	•	*7.2-7.	4	*7.6-7.8*	*7.8-B.0	8-0*8* .*
>(MEV)			and the second									
°.	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200	0.0	0.0	.0.0	0.0	0.0	0.0	. 0.0	0.0	- 0:0		0.0	0.0
.00	0.0	0.0	0*0	•••	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2,50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0*0	0.0	0.0
9.00	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
00.4	0 0	•••	•	•	0.0	0.0	0 0	9 6	•			0
2.00	0.0) 0 • 0	0.0	•	0.0	0.0	•••	•	•••	0	0	•
				:			1 111111		L		: 111111	

MAGNETIC COGROINATES B AND 1 COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: CAINGLANGEL 143-TERM FOGO 10/68 # TIME* 1970.0 ## ## VEHICLE: UK-5 0/450 ## INCLIMATION* ODEG ## PERIGEE* 450KM ## B/L ORBIT TAPE: 198161 ## PERIOD* 1.560 ## ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AE4. AE5. AP1. AP5. AP6. AP7 *** PROCEDURE : UNIFLUX OF 1972 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972. 0 WITH LIFET 445: E. 3.STASSINDOOULOSE3.VERZARIU ** CUTOFF TIMES:

*	ť	n 3	W Z ♡ ◀ Z ₩) I	SHELL	⋖	-	<i>z</i> .	•		•	
,		*1.2-1,	*	*1.6-1.	8* * 1.8-2	#3.0-2.2#	+2.2-2.	*2.4-2.6*	# #5.6=5.8#	*5.8-3.0*	Z+E=0+E# ±	2-3.4
	00 30 9°	0.0	0.0		0.0	0.0	0 • 0	0.0	0.0	0.0		0.0
	1.00E 00	0.0	0 0	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0	0.0
	7.71E-01	0.0	0.0	•	0.0	0.0	0	••	0.0	0.0		0.0
	7.43E-01	•	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	.26E-01	0.0	0.0	•	0.0	2.0	0.0	0.0	0.0	٥.0	٠	0.0
	7.24E-01	0.0	0.0	•	°:	2.0	0.0	0.0	0.0	0.0		••
30.0	7.20E-01	••	0.0		0.0	•••	0.0	0.0	0.0	0.0		0.0
	7.16E-01	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	٠	••
į	.66E-01	0.0	0.0		0.0	0.0	0*0	0.0	0.0	0.0	•	
NORMFLUX= 3	+81E 04	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY	Z. ◀ □	S	M A G Z R	J I ←	SHELL	¥ # #	M F T R R	z	r œ	RADI	1) (1	0 % & 8 -
LEVELS #3	.4-3.6	*3.6-3.	*0 * #3 * 8 - 4 * 0 *	*** 0-4	2* * 4.2-4.4*	****	44.6-	*4.6-5.0	*0*	* 6 . 2 - 5 . 4 •	45.4-5.6	* *5.6-5.8
3.00	•	0.0	0.0	•	0.5	0.0	0.0	0.0	0.0	0.0		0.0
	0.0	0.0	0.0	•	0.0	•••	0.0	0.0	••	0.0	٠	0.0
	0.0	••	0.0	0.0	0.0	0.0	•	0.0	••	٠.,	0.0	0.0
	o.	0.0	0.0		0:0	0.0	0.0	0.0	0.0	0.0	٠	••
	0.0	••	0.0	•	0.5	0.0	0.0	••	0.0	•	٠	••
	0.0	0.0	0.0	٠		••	0.0	0.0	0.0	•		0.0
	0.0	0.0	•	٠	0:0	••	0.0	0.0	0.0	0.0	٠	0.0
	0.0	•	••	•	0.0	0.0	0	••	••	0.0	•	0*0
100.	o.	0.0	0.0	•	0	0.0	0	0.0	0.0	0.0	•	0
_ x0.1	0.0	0.0	0.0	0.0	0.0	0.0	0 0	0.0	0.0	0.0	0.0	0.0
ENERGY L	Z ≪ Ø	s d	E A G N E	7 1 C	SHELL		M G T RR	z =	H & & H	F A D 1		Z 4 0
.revers #5	15.8-6:04	*6.0-6.2*	*5 *6.5-6.4	*6.4-6*	5* *£.6-6.8*	ŧ.	*7-0-7*	#1.2-7.4	÷	*1.6-7.8*	*7.8-8.0	* *8.0-8.2
> (MEV)	•											
3.00	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	. , 0 • 0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	•	0.0
	0.0	0.0	••	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00.51.	. 0-0	0.0	0.0		. 0 0	0.0	0.0	0.0	0.0	0.0	•	••
	0.0	••	0:0		0.0	0.0	0	0.0	0.0	0.0	•	0.
-	0:0	0.0	0.0		0	0.0	0.0	0.0	••	•	•	••
	0.0	0.0	••		0:0	٠.٥	0.0	0.0	0.0	0.0	•	•
20.0	٥.0	••	0.0		0.0	0.0	0.0	0.0	0.0	0.0	•	••
	0.0	0.0	•		0.0	0.0	0	0.0	0.0	0.0	•	0.0
		, «	1 6	. (•		•	•	•	•	•

** SPECTAAL DISTRIBUTION - NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

1 . 1	:	,	Z 9 4 E	ر ا	Site		or Ui ⊩	z _	T + O T	C ∢		O X 4 6 .
LEVELS	#1.0-1.2#	*1.2-1.4*	* *1.4-1.6*	* *1.5-1.8	* *1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6	*5*6=5*6*	*5*8-3*0*	* *3*0-3*5*	# # 3.2-3.4
(A ⊌ A)												
3.00	8.44€ 00	8.18E 01		0.0	0.0	0.0	0.0	•	0.0	0 • 0	0.0	0.0
2*00	1.00E 00	1.00E 00	0.0	0.0	. 0•0	0.0	0.40	•	0.0	0.0	0.0	0*0
10.0	8+82E-01	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
15.0		0*0	0.0	0.0	0.0	0.0	0.0	٠	0.0	0*0	0.0	0.0
20.0	7.55E-01	0.0	0.0	0.0	0.0	0.0	0.0	٠	0.0	0.0	0.0	0.0
25.0	7.51E-01	0.0	0.0	0.0	0.0	.0•0	0.0	•	0•0	0.0	0.0	c•0
30.0	7.41E-01	0.0	0.0	0.0	0.0	0.0	0.0	•	0.0	¢.	0.0	0.0
20.0	7.326-01	0.0	0.0	0.0	0*0	0.0	0.0	0.0	0.0	0.0	0*0	0.0
1 00 •	6.24E-01	0.0	0.40	0.0	0.0	0*0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFL.UX=	2.31E 05	8.23E 03	3 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY	L - 8 A N	507	₩ 2.0 4.	. J I L	SHELL	* *	6 6 10	z	I + 0 4 3	e 4 €		O X 4 0 1
LEVELS >(MEV)	*4-3	#3.6-3.8#	* *3.8-4.0*	* * 4 . 3 - 4 . 2	*	***	è	*4.8-5-0	• 0 - r	*S.2-5.4	* *5.4-5.6*	*5*6-5
0048	0.0	0,0	0.0	0.0	0.0	. 0	0		0.0	Ç		0
5.00	0.0	0.0	•	6				•	0.0	0.0	• •	
10.0	0.0	0.0	0+0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0
15,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	٠	0.0	0.0		0.0
20.0	0.0	.0*0	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	٠	0.0
25.0	0*0	0.0	0.0	0.0	. 0.0	0.0	0.0	•	0.0	0.0	٠	0•0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	٠	0.0	0.0	٠	0.0
20.0	- 0.0	0.0	0.0	0+0	0*0	0.0	0.0	•	0.0	c.	c•c	c.c
100.	0.0	0.0	0.0	0.0	0.0	0 * 0	0.0	•	0.0	0.0	٠	0.0
NDRMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	. • •	0.0	0.0	0.0
ENERGY	. X 4 0 1		N N		SHELL	4 0	lu lu		EADIE	Q 4 q	1 1)	C 2 4 60 .
LEVELS	#5.8-6.0* · #6.0	*6.0-6.2*	5.2-6.4	* *6*4-6*6	*	,	*7.0-7.2*	*7.2-7.41	*7-4-7*	*7.6-7.8*	# #7.8-8.0*	* #A.0-8.2
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		į				i	;					
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
		0.0	0+0	. 0 • 3	0.0	0.0	0.0	•	- 0°0 -	0.0	0.0	0*0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	0•0	c.
0 •91	0+0			0.0	0.0	0.00	0.0	٠	0.0	0.0	0.0	0.0
20.0	0.0	••	0.0	0.0	o (0.0	0.0	0.0	0.0	0.0	0.0	ç (
30.0		0.0			000	1 0 0			0.00			
0.05	0.0	0.0	0.0		0 0	0.0	0.0		0.0	0.0	: 0 • 0	
100	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- ALL LEAGUE											-	
100								•	٠,٠	ç,	ć	ċ

RADII) L.BANDS #2.8-3.0* #3.0-3.2* #3.2-3.4# 7.84.47.8-8.04..#8.0-8.2# 8 4 N D S 000000 000 00000000 0 000000000 66666 ŧ i 000000000 0:0 00000 0:0 000 #2*5-2***#** ٥ 000000000 **∢** ⋖ 7.64. 87.6-00000000 000000 000 0.0 0 α ± 2, € 1 N E'ARTH #2.4.2.5# #2.6-2.8# I r α EART 000000000 *5.0 47.4 4 ш #7.2-7.48 *4.8-8.0* *z* z 00000 0000 • #2.0-2.2* #2.2-2.4* *4.6-4.8* LIBANDS (MAGNETIC SHELL PARAMETER 45-8-6-04 46-0-6-24 46-2-6-44: 46-4-6-6-6-6-6-6-6-6-8-: 46-8-7-0-4-7-24: Œ W 0 **₩** 1 9 1 *4.4.4.6 ∢ α ∢ 0 0.0 0.0 ; 0 : 6 .8-2.0* ر د *4.2-4 .00 J 0.0 L - B A N D S (M A G N E T I C S H E #1.00-1.2* #1.2-1.4* #1.4-1.6* #1.6-1.8* #1.8 E. I 000000000 E T I C 0.0 999999 0:0 000 • 0.0 0.0 ; 5.0% 01 1.00 00 7.96 01 7.116 01 6.346 01 1 5 4 7E - 01 0.5 1.746-01 0:0 0000 00 9 9 • 4.27E 00 1.00E 00 8.41E-01 7.25E-01 6.37E-01 6-25E-01 5.06E-01 1 +28E • 000000000 0:0 7 7 NORMFLUX= MORMFLUX= NORMFLUX LEVELS > (NEV) V (MEV) 2000 1500 2000 2000 2000 > (4EV) ENERGY 213731 ENERGY 5,00 0 4 25.0 8 8 3.00 1001 9 100.

CI 00001 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AEA, AES, API, APS, APP, **** PACCEDURE: UNIFLUX OF 1972 **
** ELECTPON FLUXES EXPONENTIALLY DECAYED TO 1972, 0 WITH LIFETIAES: E.S.STASSINDPJULDSE?*VE?ZAPIU ** CUTOFF TIMES:
** MAGNETIC COORDINATES 8 AND L COMPUTED BY INVARA OF 1972 WITH ALLAAG, MODEL 3: CAINCLANGEL 143-TERM POGO 10/62 & TIME# 1970.0 **
** VEHICLE: UK-S 3/450 ** INCLINATION* 3DEG ** PERIGES* 450/M ** 9/L 3891T TAPE: TD5247 ** PERIOD* 1.560 **

在中央的一个,我们的一个,我们的一个,我们的一个,我们的一个,我们们的一个,我们们的一个,我们们的一个,我们们的一个,我们们的一个,我们们的一个,我们们们的一个,我们们

** SPECTRAL DISTRIBUTION - NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MBV **

									í			Z 4
LEVELS >(MEV)	*1.0-1.2*	#	.2-1.4+ +1.4-1.6+ :	*1.6-1.	3* *1.9-2.0*	# 2.5~2.2	* #2.2-2.4	*2,4-2,6	5# #2.6-2.84	#2.8+3.0	* #3.0+3.2	M # #
3.00	4.17E 00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	•		
8.00	1.00E 00	•	0.0	0.0	0.0	0.0	٥.0	0.0	0.0		٠	
10.0	7.79E-01	0.0	0.0	٠	0.5	0.0	0	0.0	0.0	٠	٠	•
15.0	7.41E-01	•	0.0	0.0	9	••	0.0	0.0	0 • O	٠	٠	•
20.0	7.16E-01	0.0	0.0	٠	0 •0	0.0	0.0	0.0	0.0	٠		•
25.0	7.1 AE-01	0.0	0.0	••	0*0	0.0	0.0	0.0	0.0			
30.0	7.085-01	0.0	0.0	٠	0.0	0.0	0.0	0.0	0.0			
20.0	7.02E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•		٠
100.	6.37E+01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
NORME UX=	4.54E 04	0.0	0.0	••	0.0	0:0	0	0+0	0.0	0.0	Ç.	0.0
ENERGY		ν Ω Ζ	T H C C K H	-	5 H S L L			7	۵	п «	111	€ E
LEVELS	49-E-4	P.	*3.8-4·	. 4-0	2* *4.2-4	9.4.	* *4.6-4.8	Œ	* *5.0-5.	2-5+4	* #5.4-5.	*5.6-5
>(MEV)												
3.00	0.0	0.0	0.0	0.0	0.0	0.0		•	0.0			•
5.00	0.0	0.0	0.0	•	0.0	٥٠،		•	0.0	•		
10.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0		0•0	•••		٠	0.0			•
20.02	0.0	0.0	0.0	0.0	0.0	0.0			0.0	٠	٠	•
25.0	0.0	•	0.0	0.0	ိ	••		٠	0.0	٠	٠	•
30.0	0.0	•	0.0	0.0	0.0	0.0		٠	0.0	•	•	•
50.0	0.0	0.0	0.0	0.0	0.0	0.0		٠	0.0	٠	٠	٠
.1001	0.0	0.0	0.0	0.0	0.0	0.0		٠	0*0	٠	٠	•
NORMFL UX=	0.0	0.0	0.0	0.0	0.0	0.0	٥٠0	0.0	0.0	6.0	0.0	0.0
FNERGY	100	S Q	T M A G M M		#: #	~	į.	z	۲ (۲	E 4 5.	-	<
LEVELS	.9-6.	*6.0-6.2*	*6.2-6.4*	*6.4-6.	5* *6.6-6	# 5.8 .T.C.	* #7.0-7.2*	*7.2+7*	*7.4-	*7.6-7.8	* *7.8-B	# *B .0-8
> (MEV)												
3.00	0.0	0.0	0.0	0.0	0.0			•		•	•	0.0
5.00	0.0	0.0	0.0	0.0	0.0	•		•			٠	0.0
10.0	0.0	0.0	0.0	٠	•					•	٠	0.0
15.0	0.0	0.0	0.0	•	0.0	•		•		•	•	0.0
.002	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	٠	0.0	•		٠			٠	0.0
30.0	0.0	0.0	0.0	•	0.0	•		•		•	٠	••
50.0	0.0	0.0	0.0	٠	0.0	•		•			٠	0.0
1001	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	0.0		0.0	0.0
- 1		•	•		•		•	,				
サイン ゴレビアコス			1							<		

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AE4. AE5. AP1. AP5. AP6. AP7 **** PROCEDURE : UNIFLUX OF 1972 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972. 0 WITH LIFETIMES: E.G.STASSINOPOULOSEP.VERZARIU ** CUTOFF TIMES:
** MAGNETIC COORDINATES B AND L COMFUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: CAINGLANGEL 143-TEPM POGO 10/68 * TIME= 1970.0 ** 550KM ** B/L ORBIT TAPE: TD5247 ** PERIOD= 1.554 ** ** VEHICLE : UK-5 3/850 ** INCLINATION* 30EG ** PEPIGEE 550K# ** APOGEE#

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** SPECTRAL DISTRIBUTION - NORWALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

100 1 100 100 100 100 100 100 100 100 1	>(NEV)	*1.0-1.2* *1.2-1.4*											
XII STATE OF	3.00		906 · 9		•	0.0	0.0		0	ر د	•	ů G	0
X	5.00		1.00=			0	0.0		0.0	946	•	0	0.0
7.256E-01 0.00 7.256E	10.0	8+63E-01	0.0			0+0	0.0	٠	0.0	£.		0	0.0
7.21E-01 0.00 7.	15.0	7.805-01		0		0.0	0.0	•	0.0	0.0	٠	0	0.0
7.11E-01 0.00 7.10E-01 0.00 7.	20.0	7.25E-01		0	٠	0.0	0.0		0	,	•	0.0	0.0
7-01E-01 0-0	25.0	7.21E-01	0.0	9.0	٠	0.0	0.0	•	0.0	0.0	•	0.0	0.0
7.0	30.0	7.11E-01	0	0		0	0.0		0.0	٠	٠	0	. 0
State Stat	50.0	7.01E-01	0.0	0	٠	0.0	0.0	•	0.0	0.0		0.0	0.0
N	•001	5.90E-01	0.0	0.0	•	0.0	0.0	•	0.0	0.0	•	0.0	0.0
#344-346# #346-346# #346-446# #346-446# #346-446# #346-546# #55-45-54# #55-45	ORMFLUX=		4.77E 0	D • 0	•	٠	•	•		•			
#3.4-3.6* #3.6-3.8* #3.4-3.6* #4.4-4.8* #4.4-4.6* #4.4-4.8* #4.4-5.7* #5.2-5.2* #5.2-5.4* #6.4-5.6* #6.4-5	VERGY	•	9	A A B	-	E E	A R	П Н	z	A R T	O 4	-	Ø
0.0	EVELS (MEV)	3.4-3.	#3.6=3.8	(F) ●	*4.0-4.2	* *4.2-4.	44-4.6	*4-6-4	.8-5.	*0-4-0*	5.2-5.4	* 5 * 4 • 5	*5.6-5
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	00	0 0	0*0			0	0.0		6	•	6	0.0	•
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	000	0	0.0	0.0		0	0		0.4	•	0.0	0.0	
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0.0	0.0	0.0		0.0	0 4 6	•	0.0	•	0.0	0.0	•
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.0	0.0	0.0	0.0	•	0.0	0.0	•	0.0	•	¢.	0.0	
0.0	0.0	0	0.0	0.0		0.0	0 * 0	•	0.0	•	0+0	0.0	•
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.0	0.0	0*0	0.0	•	0.0	0.0	•	0.0	٠	6.0	0	٠
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0.0	0.0	9	•	0.0	0.0	٠	0.0	•	£ • 0	0.0	٠
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0.0	0.0	9*0	•	0.0	0.0	•	0.0	٠	J•0	9*0	٠
#5.8-6.0* \$4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	•00	٠	0.0	0.0		0•0	0.0	٠	0.0	•	0.0	ပ ု ပ	٠
#5.8-6.0* #6.0-6.2* *6.4-6.6* #6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8-8.0* *8.8-6.0* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8-8.0* *8.8-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8-8.0* *8.8-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8-8.0* *8.8-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.4* *7.4-7.6* *7.6-7.8* *7.8-8-8.0* *8.8-6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.8-7.6-7.8* *7.8-8-8.0* *8.8-8.0* *7.8-7.6* *7.8-7.6-7.8* *7.8-8-8.0* *8.8-8.0* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.6-7.8* *7.8-7.8* *7.8-7.8	RMFLUX=	0.0	0.0		•	0.0	•		0.0	ن • ر	•	0 • 0	
#5.8-6.0* #6.0-6.2* *6.2-6.4* #6.4-5.6* #6.6-6.8* *6.8-7.0* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8.0.* 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ERGY	1 4	S	Z U	-	H F C	A A	н П		4 €	٥	نہ	₹
	WELS MEV)	*5.8-6.0*	*6*0	.2-6.4*	4-6.6	* *6.6-6.8	• 8-7•	•0-7•	7.2-7.	* *7.4-7	7.6-7.8	*7.8-8.C	*
	00	0.0	0.0	•	•	0.0	0.0		•	<u>د</u> د د د د د د د د د د د د د د د د د د	•	0.0	
	• 00	0.0	0.0	0.0	•	0.0	0.0	•	•	200	٠	٥•٥	
	0.0	0.0	0.0	9		0.0	0.0	•	•	0.0	•	0.0	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.0	0.0	0.0	0.0	٠	0.0	0.0			9.0	•	0.0	•
00 000 000 000 000 000 000 000 000 000	0.0	0.0	0.0	0.0	٠	0.0	0.0	•		J.C	٠	(• o	•
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.0	0.0	0.0	0.0	٠	0.0	0.0		٠	u •¢		0.0	•
0*0 0*0 0*0 0*0 0*0 0*0 0*0 0*0 0*0 0*0	0.0	0.0	0.0	0 • 0	٠	0.0	0.0		•	မ• စ	٠	0•0	
*O 0*0 0*0 0*0 0*0 0*0 0*0 0*0	0.00	0.0	0.0	0.0		0.0	0.0		•	9 ° ¢	•	C • G	•
	•001	0.0	0.0	0.0	٠	0.0	0.0	•	•	0.0	٠	ن ن	٠
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** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972. O WITH LIFETIMES: E.G.STASSINOPOULOSSP-VERZARIU ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 3: CAINCLANGEL 143-TERM POGO 10/68 # TIME= 1970.0 **
** VEHICLE : UK-5 3/650 ** INCLINATION= 3DEG ** PERIGEE= 650KM ** APOGEE= 650KM ** B/L ORBIT TAPE: TDS247 ** PERIOD= 1.629 ** ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AE4, AE5, AP1, AP5, AP5, AP7 *** PROCEDURE : UNIFLUX OF 1972 **

** SPECTRAL DISTRIBUTION - NORMALIZED BY FLUX OF ENERGY GREATER THAN \$.00 MEV **

LEVELS >(MEV)	-701 -001	#0-1-4-1										
3.00	4-60F 00	4.998 01	0.0	¢	0.0		0	0.0	0	0.0	0	0 0
, c			- 3	676								
		100		•	•		•	•			•	•
0.01	8.335-01	10-386-0	0.0	0.0	•		0.	0.0	0.0	0	0.0	0.0
15.0	7.12E-01	7.06E-01	••	0.0	0.0	•	0	0.0	0.0	•	0.0	0.0
20.0	6.37E-01	6.25E-01	0.0	0.0	0.0	٠	0.0	0.0	0.0	0.0	0.0	0:0
25.0 "	6.32E-01	6.01E-01	.0.0	0.0	0.0	٠	0.0	. 0.0	0.0	0.0	0*0	0.0
0 * GE	6.20E-01	5.43E-01	0.0	0.0	0.0		0*0	0.0	0.0	0.0	0*0	0.0
50.0	6.09E-01	4.94E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	4.895-01	1.86E-01	0.0	0.0	0		0+0	0	0	0.0	0.0	0.0
NORMFLUX	1.50E 06	1.92E 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0
ENERGY	1 8 4	N O N	A .	1 1	SHELL	4 5	M F → E ←	z -	E A R	Q 4 R.	-	2 × 00
LEVELS	#3.4-3.6#	6-3	* 3.6-4.	*4.0-4.	•	4	9	'n	.0-5	*5.2-5.4	*5.4-5.6	5-6-5
>(MEV)												
9,00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	
10.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	••	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	. 0.0	0.0	0.0	0.0	0.0	••
20.0	0.0	Ç	0.0	0.0	0	٠	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	••	0.0
30.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0•0	••	0.0	0.0
50.0	0*0	0.0	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0	0.0
100	٥.٠	¢.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0*0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY	1 B A P	, w o z	N N N) I L	SHELL	4 4 4	E E	z	₩ ₩ ₩	RAD		2 4
LEVELS >(MEV)	*8-6.0*	*6.0-6.24	*6.2-6.4	* *6.4-6.	6# #6.6-6.8)	•0-7•	*7.2-7.	4* #7.4-7.6#	#7.6-7.8	*7.8-8.0	8.0
3.00	0.0	0.0	0.0	6.0	•	0.0	0.0	0.0	0.0	0.0	•	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0*0	0.0	0.0	•	0.0	0.0	0.0
10.0	0.0	0.0	0.0	•	0.0	0.0	0.0	0*0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	. 0•0	0.0	. 0 • 0	0.0	0.0	0.0
20 • 0	0.0	0.0	0.0	0	0.0	0.0	٠	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	, 0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	٠		٠	0.0	•••	0*0	••
. 0.05	0.0	0.0	0.0	0.0	. 0.0	0.0	0.0	. 0.0	.0.0	0.0	0.0	
•001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•••	0.0
-XII ISMOUN	4	0	6	ć	e e			•		9		o c
	,	, ,)	• •) ! } }) •		,) }	

* PERIOD= 1.560 450KM ## B/L ORBIT TAPE: 108161 ## ** INCLINATION ODEG ** PERIGER - 453KM ** 1POGEE VEHICLE : UK-5 0/450

8 A N D S 1) L - B A N D S #3.0-3.2# #3.2-3.4# I) L - 8 A N D S 0.0 000000000 0.0 000000000 ı #5.4-5.6# ر 0.0 00000000 0.0 000000000 0.0 _ 1 # 2.6-3.0* *6.2-5.4* *1.6-7.8* e ٥ < ∢ 0:0 0:0 000 Œ œ *2.6-2.8* * 5.0-5.2* *7.4-7.6* I ۳ 000000000 0.0 000000000 000000000 œ 0.0 4 щ bi *4.8-5.0* 1 N E *7.2-7.4# z z 000000000 0.0 ET ER #4 .6-4 .B* #5.8-7.L# #7.0-7.2# œ α ш w ۰ 0.0 0 ш w Į Σ Į # 2.0-2.2# *4.4.4.6* 4 ⋖ * ** 00000000 ⋖ ∢ 000000000 000000000 2 # E L L * 4.2-4.4* H E L L *1.8-2.0* *6.6-6.8* 000000000 0 ij. I | | C | S | # | 1.6-1.9* w *4.0-4.2* w #6.4-6.5# 000000000 000 υ 000000000 <u>-</u> -۲ *1.4-1.6* ě *6.2-6.4* tu; w #3.6-4.8# #3.8-4. Ż z 00000000 000000000 G 000000000 6.0 ø ⋖ • Ŧ Σ I *1.2-1.4* #5.9-6.0# #6.0-6.2# 0000000 000000000 m S 000000000 ٥ ۵ " - 8 A N z Z Z *9.6-0.E* 1.00F 0C 9.36E-01 7.65E-01 6.39E-01 5.23E-01 8.42E-01 S 3.79E-01 4.405-01 3.335-01 4 ∢ 0 ø 1.285 • 0.0 _ Ļ NOPMELUX MORWFL UX= LEVELS >(MEV) LEVELS >(MEV) LEVELS V (MEV) ENERGY ENEPGY .500 1.10 1.50 2.00 2.50 3.00 1.50 2.50 1.10

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NORMFL UX=

** MAGNETIC COORDINATES 8 AND L COMPUTED BY 14VAPA OF 1972 WITH ALLMAD. MODEL 3: CAINFLANGEL 147-TERM DOGN 10708 # TIME= 1970.0 ** SSOKM ** BZL ORPIT TAPR: TORISI ** DEPIED= 1.594 ** ** INCLINATIONS ODEC ** PERIGEES SSOKM ** ADDOPE ** VEHICLE : UK-5 0/550

** SPECTRAL DISTRIBUTION - NOSMALIZES BY FLUX OF FUENCY GOEATER THAN. 100 MEV **

1.00 1.00													
		1.00E 00	1.00€ 00	c		0.0	0.0		•	0.0	0.0	0.0	. 6.0
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1.0 1.0		7.265-01	6.506-01	0.0		0.0	0.0			0.0	9+0	6.0	0.0
### 13 1 1 1 1 1 1 1 1 1		6.168-01		0.0		0•0	0.0		٠	0.0	0*0	0.0	0.0
1.34E - 11 14-6E - 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4.51E-01		0.0		0.0	0.0		•	0.0	0.0	0.0	0.0
1.3 E 1 1 2 E 1		3.435-01	1.46	c		0.0	0.0		٠	0.0	0.0	0.0	0.0
		2 + 72E-01	7.62E-02	C		0.0	0.0		•	0.0	C • C	0.0	0.0
1.95E-01 2.23E-02		2.26E-01	4.06E-02	C		0.0	0.0		٠	0.0	0.0	0.0	0.0
#3.4-34E 06 6.447 05 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	•50		2.236-02	0.0	0.0	0.0	0.0			ŭ*0	0+0	6.0	0.0
#3.4-3.6 # #3.6-3.6 # #3.6-4.0 # #4.2-4.8 #4.8-5.0 # #4.8-5.0 # #4.8-5.0 # #3.6-3.6 # #3.8-4.9 # #4.8-5.0 # #3.6-3.6 # #3.8-4.0 # #4.8-5.0 # #3.6-3.6 # #3.8-4.9 # #4.8-5.0 # #3.6-3.6 # #3.8-4.9 # #4.8-5.0 # #3.6-3.6 # #3.8-4.9 # #4.8-5.0 # #3.6-3.6 # #3.6-3.6 # #3.8-4.9 # #4.8-5.0 # #3.6-3.6 # #3.8-4.9 # #4.8-5.0 # #3.6-3.6 # #3.8-4.9 # #4.8-5.0 # #3.6-3.6 # #3.8-4.9 # #3.8-4.9 # #3.8-4.9 # #3.8-4.9 # #3.8-4.9 # #3.8-4.9 # #3.8-4.9 # #3.8-5.0 # #3	NORMFLUX =	• 34E		ċ	0.0		•		•	•	0.0	0.0	
#3.4-3.6* #3.6-3.8* #3.6-4.2* #4.2-4.2* #4.2-4.4* #4.8-5.0* #5.0-1.2* #5.0-1.2* #5.2-5.2* #5.2-5.4* #5.2-5	ENERGY	Œ	SO	₩ ₩ ∀	0 -	Ī	4		2	e G	0 4 0		4
C	LEVELS	*3 *6-3*6*	#3+6-3+8#	#3.8-4.0#	*4.3-4.	*	*\$*******	* #0.6.0.0.	***B-5+(#8*0-c*5# #C	*44・ラード・4*	#444-5+6#	¥.
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		0*0	0.0	0.0		0.0	0.0	0•0	0.0	•	0.0	0.0	0.0
#5.8-6.0* #6.0-6.2* #5.2-5.4* #6.4-6.6* #6.6-6.8* #6.5-7.9* #7.0-7.2* #7.1-7.4* #7.1-7.4* #7.1-7.8* #7.8-7	L UX =	0.0	0.0		0-0		•	•	. •	•		•	
#5.8-6.0# #6.0-6.2# #5.2-5.4# #6.8-7.0# #7.0-7.2# #7.2-7.4# #7.2-7	> -	6	So	ω 2 6	_		~	11: 5= (1)	2 -	۲ ۵	4		∢
	v •	9-8-6	9-0-	*5.2-6.4	.4 - 6.	*6.6-6	. 7 - 6.	•0-7•	*7.2-7.	1 d	*7*6-7*A*	0*a-8*L	φ. (C.
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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE FNVIRONMENTS : VETTES AE4, AF5, AP5, AP6, AP7 *** PROCEDUPE : UNIFLUX OF 1972 ** 3: CAINCLANGEL 143-TFRM POGO 10/68 * TIME= 1970.0 ** 650K4 ** 8/L ORBIT 14PE: TD9161 ** PCRIOD= 1.629 ** ** ELECTAGN FLUXÉS EXPONENTIALLY DECAYED TO 1972. O WITH LIFFTIMES: E.G.STASSINOPOULDS6P.VERZARIU ** CUTOFF TIMES: ** MAGNETIC COURDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MCGFL

** SPECTFAL DISTRIBUTION - NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

•	YOURNE	4		2	F 4 €		- u	4	<u>.</u>	2	•	•	-	2 4
:	LEVELS >(MEV)	+0-1+24	#	. .		*1.6-1.8	* *1.8-2	*	*2.2.2.4	#2.4-2.6#		on on the contract of the con	0-3.2	#3.2~3
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	•100	1.00 00	1.00%	000	0	••	0.0	0.0	0	٠	0.0	0	•	
!	500	8.765-01	8.446-01		.ن	0.0	0	0.0	0.0	٠	0.0	0.0	•	
	006	7.585-01	6.655-01	01 0.0	0	0.0	0.0	0.0	?	٠	0.0	0.0	•	
,	-1-10	6.565-01	5.456-01		0	0.0	0.0	0.0	0*0	٠	0.0	0.0		
	1.50	5.93E+01	3. E 7E-01		•	0.0	0.0	0.0	0.0		0.0	0.0	•	
	2.00	4.92E-01	2.24E-01		0	0.0	0.0	0.0	0.0		0.0	0.0	•	
	2.50	4 . 15E-01	1.375-01		•	0.0	0.0	0.0	0.0		0.0	0.0	٠	
	3.00	3.55E-01	8.385-(۰	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3+50	•	5.146-0		0	0.0	0.0	0.0	0.0		0.0	0.3	0.0	0.0
-	NORMFLUX	4.775 06	6.15E	0 90	۰	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
¦ •••	ENERGY	∢ 00 1	ν c	¥	F Ed Ed Ed	υ •	S # F L L.	4	ų. ⊢	z +	α	A A O I		0 2 4
^	LEVELS > (MEV)	*	*3.6-3	•	* 0 *	*4.0-4.2	* *4.2-4	*9.4-4.	44.6	₩.	# 0.0 0.0	2-5.4	*5.4-5.6*	*5.6-5
	.100	0.0	0.0	ċ	0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
1	.500	•	٠	•	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
	006*	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
:	1.10	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
	1.50	0.0	0.0	•	0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
:	2.00	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
	2,50	0.0	٥• د	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
ì	3.00	0.0	٠	0.0	0	o.0	0.0	0.0	0.0	0.0	0.0		0.0	
	3.50	0•0	0.0	3	•	0.0	0.0	0.0	0.0	0-0	0.0		0.0	
. z 	NORMFLUX=	0.0	0.0	•	0	0.0	0.0	0.0	0.0	0.0	0.0	0 • 0	0.0	0.0
:	ENERGY	r = 8 ≱ ≥	S	χ Σ	6 7 ff 1		SHELL	∢	2 in 1	z	œ	A A	1 1 1	0 Z 4 0
- ^ -	LEVELS >(MEV)	# 5.8-6.0*	.0-6.	2* *6.	*	*6.4-6.6	vo.	*6.8-7.0*	•0 • 7 •	*7.2-7.4	* *7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-8.2
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į	1+10	0.0	0	0		0.0	0	9	0.0	0	0.0	0.0	0.0	0.0
	1.50	0.0	0.0	0.0	0	0.0	0.0		0.0		0.0		0.0	
	2+00	. 0.0	0.0	0.0.		0.0	0.0		0.0		0.0		0.0	
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!	3.00	0.0	٠	٠	•	0:0	0.0		0.0		0.0		0.0	
	3.50	0.0	0.0	ċ	•	0.0	0.0		0.0		0.0		0.0	
:	NORMFLUX	0.0	0.0		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VZITES AE4. AE5. AP5. AP5. AP5. AP5. AP7 *** PROCEDURE : UNIFLUX OF 1972 ** 3: CAINSLANGEL 143-TFRM POGO 10/68 # TIME= 1970.0 ## 450KM ## 37L ORBIT TAPE; T05247 ## PERIOD= 1.550 ## ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972, 0 WITH LIFETIES: E. 1.STASSINDPJULDS62.VG2ZARIU ** CUTOFF TIMES: ** MAGNETIC COGREDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLIAG. MODEL ** VEMICLE : UK+5 3/450 ** INCLINATION* 30FG ** PERIGEE 451/M ** 4PDGEE=

0	•	* * * * * 0 = 2 • 2 * * 2 • 2 = 2	4* *2.4-2.5*	*2.6-2.8*	*2.8-3.0*	#3,0-3,2#	*3.2-3.4
CX = 1.00E 00.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.							
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CX= 1.71E OS 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	•	0	0*0	0.0	0.0	0.0	0.0
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# # # # # # # # # # # # # # # # # # #	•	0	0.0	0.0	•	•	0.0
#5.8-6.04 #6.0-6.24 #6.2-6.44 #6. '0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
#5.8-6.04 #6.0-6.2* #6.2-6.4* #6. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	ø	A M E T	Z	H O V	I G V H	1.3	Z K
	.4-5.6* *6.6-6	*	N	4	#7.6-7.8#	*7.8-8.0*	#9 · 0 - 9 · 2
	-						
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CAINGLANGEL 143-TERM POGD 10/68 * TIME= 1970.C 550KM ** B/L ORBIT TAPE: TD\$247 ** PERIOD= 1.594 ** ELECTRON PLUXES EXPONENTIALLY DECAYED TO 1972. O WITH LIFETIMES: E.G.STASSINOPOULOSEP.VERZARIU ** CUTOFF TIMES: ** MAGNETIC COORDINATES 6 AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: ## INCLINATION= 3DEG ## PERIGEE= 550KM ## APOGEE= ** VEHICLE : UK-5 3/550

** SPECTRAL DISTRIBUTION - NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

1.77E-01 1.57E-01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0						0.210.1	* Z	212	***	*****	9	• • • • • • • • • • • • • • • • • • • •	
1.70 F 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LEVELS	*1+0-1+5*	*1.2-1.4										
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7.17=01 6.25%=0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	200	8.75E-01	8+596-01		٠	٠	0	•	0.0	<u>.</u> ق	•	0	0
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4.277E-01 1.577E-01 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.10	6.05E-01	5.046-01		٠	٠	0.0	•	0.0	0	٠	0.0	0
2.47FE-01 1.45FE-02 0.00 2.45FE-01 4.66F-02 0.00 2.40FE-01 4.66F-02 0	1.50	4.47E-01	2+98E-01			•	O•0	•	0.0	0.0	٠	0.0	0.0
2.458EC01 4.668EC02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	- 2.00	3.27E-01	1 +57E-01	0		٠	0.0	•	0.0	0.0		0*0	0.0
1.206 E-0 1 4.68E-0 2 4.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.50	2.55E-01	8.46E-02	0	•	•	0.0		0*0	3.0	•	0.0	0.0
1.80 E 05 3.18 E 05 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3+00	2.08E-01	4.65E-02		۰		0.0		0	9		0	0
1 - 8	J. 50	1.775-01	2.63E-02	٥		•	0.0	•	0.0	0.6		0.0	0.0
L - E A N D S (M A G N E T I C S H E L L P A R A M E T E R I N E A R T H R A D I I) L - B A N D S (M A G N E T I C S H E L L P A R A M E T E R I N E A R T H R A D I I) L - B A N D S (M A G N E T I C S H E L L P A R A M E T E R I N E A R T H R A D I I) L - B A N D S (M A G N E T I C S H E L L P A R A M E T E R I N E A R T H R A D I I) L - B A N D S (M A G N E T I C S H E L L P A R A M E T E R I N E A R T H R A D I I) L - B A N D S (M A G N E T I C S H E L L P A R M E T E R I N E T E R I N E A R T H R A D I I I) L - B A N D S (M A G N E T E R I N E T E R I N E A R T H R A D I I I) L - B A N D S (M A G N E T E R I N E A R T H R A D I I I) L - B A N D S (M A G N E T E R I N E T E R I N E A R T H R A D I I I) L - B A N D S (M A G N E T E R I N E T E R I N E A R T H R A D I I I) L - B A N D S (M A G N E T E R I N E T E	:												
#3.4-3.6* #3.6-3.8* #3.8-4.0* #4.0-4.2* #4.2-4.4* #4.4-6. #8.8 #5.0-5.2* #5.	NORMFLUX	1.80E	3∙18∉	•	0	0.0	•		•	٠	٠	0	0.0
#3.4-3.6* #3.6-3.0* #3.0-4.2* #4.2-4.6* #4.6-4.6* #4.6-4.5* #5.2-5.2* #5.2-5.4* #5.4-5.6* #5.6-5.4* #5.4-5.6* #5.6-5.4* #5.4-5.6* #5.6-5.4* #5.4-5.6* #5.6-5.4* #5.4-5.6* #5.6-5.4* #5.4-5.6* #5.6-5.4* #5.4-5.6* #5.6-5.4* #5.4-5.6* #5.6-5.4* #5.4-5.6* #5.4-5	ADO BNE	•	9	Z		I	4	μ -	z	4	4	-	4
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		4	40.61	4	410			4 4	: "	A C C C C C C C C C C C C C C C C C C C	F. 2-F	4	A
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	>(MEV)		ľ						?		•		2
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	• 100	0.0	0.0	0.0		•	0.0	0.0	0	0.0	0.4	0.0	0.0
0.0	• 500	0.0	0.0	0.0		•	0.0	0.0	0.0	0•0	0.0	0.0	0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	006*	0.0	0.0	0.0			0.0	0.0	0.0	0•0	0.0	0.0	0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.10	0*0:	0.0	0.0		•	0.0	0.0	0.0	0.0	0*0	0.0	0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.50	0.0	0.0	0.0	•	•	0.0	0.0	٥ • ٥	0.0	0.0	0.0	0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2,00 -	0.0	0.0	0.0	•		0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2+50	0.0	0.0	0.0		•	0.0	0•0	0.0	0.0	0.0	Q.0	0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	. 00°E . –	0.0	0.0	0.0	•		0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0•0	0.0		0	ċ	0.0	0.0	0.0	0.0	0.0	0.0
#5.8-6.0* #6.0-6.2* #6.2-6.4* #6.4-6.6* #6.6-6.8* #6.8-7.0* #7.2-7.4* #7.4-7.6* #7.6-7.8* #7.8-8.0* #8.0-0.0 0.0	NORMFLUX		0.0	: 0 • 0	0.0	•	ċ	•	•		•	0.0	
#\$.@-6.0* #6.0-6.2* #6.4-6.6* #6.4-6.6* #5.9-7.0* #7.2-7.4* #7.4-7.6* #7.4-7.6* #7.8-8.0* #0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ENERGY	< ⊕ 1	5 3	Z ⊍ ∢	J # F	# E L	¢	H □	z	⊢ α	∢	-	∢
	LEVELS >(MEV)	*2*B-6*0*	*6.0-6.2*	*		8-9-9.	6.8-7.	•0-7•	•2-7•	* *7-4-7•	6-7-	*7•8-8•	C • 80 *
	.100			0	0.0	0.0	0.0		0.0	3*0	•	0•0	
	009	- 0.0	0*0	9	0*0	0.0	0•0		••	0.0	•	0.0	•
00 00 00 00 00 00 00 00 00 00 00 00 00	006•	0.0	0.0	0.0	0.0	0 • 0	0.0		0.0	0.0	٠	0.0	
**************************************	1.10	. 0.0	0.0	0.0	0.0	0.0	. 000		0.0	0.0	•	0.0	٠
0 000 000 000 000 000 000 000 000 000	1 - 50	0.0	0.0	0.0	0.0	0.0	0.0	٠	0.0	0.0	•	ر د د	٠
	2.00	- 040-	:	0.0	0.0	0.0	0.0	٠	.0.0	0	•	0	٠
	2.50	0.0	0.0	••	0.0	0.0	0.0	٠	0	0.0	٠	ů.	٠
	- 3¢00 -	0.0	0.0	:	0.0	0.0	0.0		0.0	J*0	•	0*0	
	3.50	0.0	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	•	0.0	•
		:		ç	•			4				ć	

3: CAINELANGEL 143-TERM POGO 10/68 # TIME= 1970.0 ## ** VEHICLE : UK-5 3/650 ** INCLINATION= 3DEG ** PERIGEE* 550KM ** APOGEE* "650KM ** "8/L ORBIT TAPE: T05247 ** PERIOD= 1.629 ** ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972. 0 WITH LIFETIMES: E.G.STASSINOPOULOSGP.VERZARIU ** CUTOFF TIMES: ** MAGNETIC COORDINATES 8 AND L COMPUTED BY INVARA OF 1972 MITH ALLMAG, MODEL

) (. 3				:	1		; ;			
LEVELS >(MEV)	#1.0-1.2#		*1.4"T*6*	#1:6-1.8	# #1.8.2.0#	*2.0-2.2*	*2.2-2.4*	#2.4-2.6	# #2.6-2.8#	#2.8-3.0#	#3.0-3,24	# # 3 · 2 · 3 · 4 · 4
001•	1+00E 00	1.00E 00	0.0	0.0	0.0	3 •0	0.0	0.0	0.0	0.0	0.0	0.0
.500	8.73E-01	8.416-01	0.0	0.0	. 0 • 0	0.0	0.0		0:0		0.0.	0.0
• 900	7.50E-01	6.62E-01	0.0	••	•	•	0.0	٠	٠	0.0	0.0	0.0
1.10	6.84E-01	5.42E-01	0.0	0.0	•	•	0.0	•		0.0	. 0.0	0*0
1.50	5.756-01	3.64E-01	0.0	0.0		٠	0.0	•	٠	0.0	0.0	0.0
2.00	4.73E-01		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
2+50	3.97E-01		0.0	0.0			0.0			0.0	0.0	0.0
3.00	3.386-01		0.0	•••	0.0	0.0	. 0.0	. 0.0		0.0	0.0	. 0.0
3, 59	2.91E-01	_	0.0	••	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0
NORM#LUX=	5.89E 06	5.89E 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY	L - 8 A !		AGNET	5) I .	, H E L L	∀	RETER	z	EARI	R A D 1	1) (.	S O Z ¥ B
LEVELS	#3.4-3.6#	\$0.4-0.0 \$0.00.00.00 \$0.00 \$0.00	*3.8-4.0*	*4.0-4.2*	* 44.2-4.4*	*4.4-4.6*	.6-4	***8-5*0	# #5.0-5.2#	*5.2-5.4	*5*4-5•6	* #5.6-5.8#
• 100	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0•0	0.0	0.0	0.0
- 500	0*0	0.0	0.0	0.0	0.0	0.0	0*0	0.0	. 6*0	0.0	0.0	0.0
006•	0.0	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0•0	•••	••
1.10	0.0	0.0	0.0	0.0		0.0	0.0		٠	0.0	0.0	0.0
1 • 50	0.0	0.0	0.0	0.0	•	0.0	0.0	. 0.0	٠	0.0	••	0.0
2.00	0	0.0	0.0	0.0	•	0.0	0.0	0.0	•	0.0	0.0	
2.50	0	0.0	0.0		•	0.0	0.0	0.0	٠	0.0		0
3.00	0	0 • 0	0.0	0.0	٠	0.0	0.0		. 0.0	0.0	0.0	0.0
3.50	0.0	•	0.0		0.0		0.0	0.0	•	0.	0•0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY	L + 8 A	N 0 N	AGNET	5 V I	5 H E L L	₹	METER	z	EARTH	RADI		SONYE
LEVELS	*2*8-¢*0*	#2*8-6*0* #6.0-6.2*	*6.2-6.4*	*6.4-6.61	* *6.6-6.8*	*6.8-7.04	*7.0-7.2	#7.2-T.4	47.4-7.64	#7.6-7.8	*7.8-8.04	* *8.0-6.2*
>(MEV)								1			1	
001*	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0
+500	0.0	0.0	0.0	0.0		. 0.0	0.0	0.0	0.0		0.0	0*0
006*	0.0	0.0	0.0	••	•	0.0	0.0	0.0	0.0		0.0	0.0
1. 10	0	••	0.0	0.0	٠.	0.0			0.0	•	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	. 0	0.0	0.0	. 0.0	0.0	0.0
5.00	0.0	0.0	. 0.0	٥.	٠	0.0		0.0	D*0	•	0.0	0.0
2+ 50	0.0	0.0	0.0	0.0	٠	0.0		0.0	0	٠	0.0	••
00 €	0.0	0.0	0.0		•	0.0	.0.0	0.0	0.0	•	0.0	0.0
3.50	0.0	0.0	0.0	•	٠	0•0	0.0	•	0.0	•	••	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
:												

te Orbital Flux Study with Composite Particle Environments; veites aet, api, aps, ap6, ap7 **e* precedure; uniflux of 1972 ***

** Flectron Fluxes exponentially decayed to 1972, o with lifetials; E, i, Stassindpoulose, verzariu ** Cutoff tiwes;

** Magnetic Convolvates B and L Computed by Invara of 1972 with alluad; Model 3: Cainclangel 143-term pogo 10/68 * Time= 1970.0 **

** Vehicle; UK-S 0/450 ** Inclination= odeg ** Pefigee= 45)KM ** APOGEE* 450KM ** B/L ORBIT TAPE: Tobic: ** Perion= 1.560 **

** Vehicle; UK-S 0/450 ** Inclination= odeg ** Pefigee= 45)KM ** APOGEE* 450KM ** B/L ORBIT TAPE: Tobic: ** Perion= 1.560 **

	化安全 化二甲基甲基 化二甲基甲基甲基
ELECTRONS	化二甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲
计多数计算计算计算计算	化金属 医多种性性多种 化苯基苯基

3dS *****	CTRUM IN PERCE	***** SPECTRUM IN PERCENT DELTA ENERGY ****	****** 194	***	*** COMPUSITE JRBIT S	SPECTRUM ***	* EXPOSURE 1	* EXPOSURE INDEX-ENERGY >.500MEV *	>-500MEV #
ENERGY	AVERAGED	AVERAGED	SPECTRUM	ENERGY	AV 3RA 3ED	AVERAGED	INTENSITY	EXPOSURE	TOTAL # OF
PANGES	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG.FLUX	INTEG•FLUX #/C*## 2/D&Y	RANGES #/CM##2/SEC	(HOURS)	PARTICLES
(MEV)	#/CM##2/SEC	*/CM**2/DAT	7 Y		3 d C \ 3 : b d C \ x		•		
0051	CO-7E01.A	5.2736 03	25.134	•	2.125 3-01	2.098E 04	ZERD FLLX	44.700	0.0
00-1-005	1.7926-02	1.5496 03	7.381	• 250	2,024 3-01	1.752E 04	1.E0-1.E1	3,300	3,141E 04
09-1-00-1	1.0745-02	0.280E 02	4.423	\$500	1.318 =-01	1.571E 04	1,51-1,52	0.0	0.0
20-2-09-1	1.7276-02	1.492 6 03	7,112	.750	1.706 3-01	1.469E 04	1.62-1.63	0.0	0.0
00-2-00-6	2.451F-02	2.032F 03	9.684	1.00	1.6396-01	1.416E 04	1,63-1,64	0.0	0.0
2.50+3.00	2-124E-C2	1.8355 03	8.748	1.25	1.5872-01	1.3716 04	1.E4-1.65	••	0.0
3.00-4-00	6.6736=02	5.765F 03	27.479	1.50	1.531 =-01	1+323E 04	1.55-1.66	0.0	0.0
4.00-5-00	2 *4 38F * C2	2,1065 03	10,038	1.75	1.157 =-01	1.259E 04	1.56-1.67	0.0	0.0
5.00-0VER	0.0	0.0	0.0	2.00	1.3593-01	1.174E 04	1.E7-0'ER	0.0	••
				2.50	1.1235-01	9.707E 03			
TOTAL	2.429E-01	2.098E 04	100.000	3.00	9.116 3-02	7.871E 03	TOTAL	48.000	3.141E 04
				3.50	6, 387 5-02	5.519E 03			
				4.00	2.43E 5-02	2.106E 03			
				4.50	:	0*0			
				5.00	0.0	0.0			

TOBE 2.2

*** THE FLUX STUDY WITH COMPOSITE PARTICLE FIVIRORNELS: VETTE AND A STUDY WITH COMPOSITE FARESTAND AND A STUDY W ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS; VETTES AFL, AES, ADI, ADS, ADS, ADS **** DONCEDING : UNTFLUX DE 1972 **

** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972, 0 WITH LIFETIMES: F.G.STASSINDDOULDSED-VERTARIU ** CUTAFF TIMES:

** MAGNETIC COOPDINATES B AND L COMPUTED BY INVAMA OF 1972 WITH ALLMAS, MODEL 3: CAINGLANGEL 143-FFRW POOR 10769 * TIME* 1970.0 **

** VEHICLE : UK-S 07550 ** INCLINATION* 0036 ** PERIGEE= 550KW ** ADIGEE= 550KW ** AZINCLE TAPE: TOBIS! ** BERIODE 1.504 **

高级 化苯基基 化二苯基苯基 FLECTRONS 新女性长者 法有条件的

J3d5 ****	TRUM IN PERCE	***** SPECIFUR IN PERCENT DELTA ENERGY *****	***** AS:	WUU ***	*** Windicads liked Silsonwoo ***	*** Wicilage	Bansoaxu +	* ARMCON*A ASGERUTETXBORT BENSSERVE F	# ASMC03**
ENERGY	AVERAGED	AVE RAGED	SPECTRUM	ENERGY	AVFRASED	AVERAGED	YTENSTY	ediscoxi	TOTAL N OF
PANGES	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG.	TATES, FLUX	O ANGES	PUPPATION	CTTALLWUDDA
(MEV)	#/CM**2/SEC	#/CM##2/D4Y	PER CENT	>(MEA)	97CM##378#C	人では人の本体をは人物	し出い人の本来もしてま	(Hofter)	DARTICL=*
.0 500	2.044E.00	1.766E 35	50.142	•	4.0775 00	3. 523F 05	ZEPO FLUX	000*29	0*0
.500-1.00	4 .378F-01	3.782E 04	10 • 737	•250	2+6527 00	20. 2010 05	1.0-1.61	£ F C .	ತಿಂದಿ ಇಂದಿದ್ದು
1.00-1.50	2 - 37 9F - 01	2.055E 04.	5.833	. 500	2.0335 00	1.75.65 05	0 H € I + 1 ± €	4.067	3,1437 05
1.50-2.00	3.167E-01	2.737E 04	7,759	0 JE 0	1.7340 00	1.4987 05	* 3 e 2 - 2 e 2 ·	ن• ن	0.0
2 +00-2+50	3.558F-01	3.674E 04.	8.726	1.00	1.5955 00.	1,378= 05	1.53-1.64	0.0	0.0
2.50-3.00	2.473E-01	2.136E 04	6.064	1.25	1.477 00	1.27.5= 05	1.474.1.005	0.0	0.0
3.00-4.00	3 - 892E -01	3.362E 04	9.543	1.50	1.1575 00	1.173" 05	7 ts • 1 - 1/2 ts • .	0.0	0.0
4.00-5.00	4 #8235 -02	4+167E 33	1.183	1.75	1,2167 00	1.051F 05	1.586-1.57	0.0	C • O-
5.00-0VER	0.0	0.0	0.0	2.00	1.0407 00	9* 0 House	4.57-046	0.0	0.0
				0.50	6.9475-01	5.015" 04			
TOT AL	4.077E 00	34 S.2.7E 35	100.001	3.00	4.374=-01	** 779F 0A	T C)T AL	40.000	3. 45 13 E
				3,50	1.9945-01	1.7237 04			
				4.00	4.823=-02	4-1570 03			
				4.50	0.0	0.0			
				5.00	0.0	0.0			

**** ELECTRONS *********

. ***** SPECTRUM IN PERCENT DELTA FINERSY ****							* *************************************		
RNERGY	AVERAGED	AVERAGED	SPFCTRUM	ENERGY	AVERAGED	AVERAGED	INTENSITY	EXPOSURE	TOTAL . OF
SUSPEC	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG.FLUX	INTEG.FLUX	RANGES	OURATION	ACCUMULATED
(MEV)	#/CM##2/SEC	4/CM **2/CAY	PER CENT	> (NEV)	#/CM**2/5EC	#/CM##2/DAY	#/CM **2/SEC	(HOURS)	PARTICLES
.0 500	3.796€ 01	3,2803 06	67.637	•	5.612F 01	4.849E 06	ZERO FLUX	39.000	0.0
.500-1.00	5.7515 00	4.9695 05	10.247	+253	2.821F 01	2.438E 06	1.E0-1.E1	2.133	3+134E 04
1.00-1.50	2.764E 00	2, 3685 45	4.924	. 300	1.816E 01	1.569E 06	1.E1-1.E2	2.900	5.175E 05
1.50-2.00	3.254E 00	2. E1 25 C5	5.798	.750	1.413E 01	1.221E 06	1.62-1.53	3.967	2.590E 06
2.00-2.50	3.041E 00	2.6275 05	5.418	1.00	1,2415 01	1.0725 06	1.63-1.64	0.0	0.0
2.50-3.30	1.667E 00	1.440E C5	2.970	1 +25	1.10 16 01	9.513€ 05	1.54-1.85	0.0	0.0
3.00-4.30	1.6115 00	1+3921 05	2 + 871	1.53	9.648F 00	8,336E 05	1.E5-1.E6	0.0	0.0
	7.5935-02	6.€50≅ 03	0,135	1.75	8.143F 00	7.0356 05	1.56-1.57	0.0	0.0
5 .00-0V ER	0.0	0.0	0.0	2+03	6.394E 00	5.5258 05	1 .F 7-0VER	0.0	0.0
				2.50	3+354E GO	2.897E 05			
TOT AL	5.612F 01	4.849€ 06	100,000	3.00	1.687E 00	1.458E 05	TOTAL	48.000	3.1398 06
				3.53	4 + 79 3F-0 1	4.141E 04			
				00.4	7 .59 3F0 2	6.560E 03			
				4 •50	0.0	0.0			
				00*6	0.0	0.0			

ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AE:. APS. APS. APS. APS. APT **** PROCEDURE : UNIFLUX OF 1972 ## ## ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972. O WITH LIFET1455: E. 3.STASSINOPJULJS6? VE?ZARJU ## CUTOPF TIMES: ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 3: CAINCLANGEL 143-TERM POGS 10/69 * TIME= 1970.0 ** 46 VEHICLE : UK-5 3/450 44 INCLINATIONS 30EG 44 OFFIGENC 453/A 44 APOGEN 450KM 40 3/L DOBIT TAPE: TOSSAY 44 PERIODS 1.560 44 PROFILE : UK-5 3/450 44 PROFILE S SASO 44 PROFILE

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*** SPEC	TRUM IN PERCE	tettet Specifica in Percent Delia energy 4444	*****	0.TO) *##	WEEK WORLDOWN TOYS HILL STANDS FIRE	### FOT 30L	H TYPOSOME	R EXPLISIONE INDEX-ENERGY > 5000MEV #	>* 200 MEV #
ENERGY :	AVERAGED	AVERAGED	SPECTRUM	FNERGY	AV SRAGED	AVERAGED	INTENSITY	EXPOSURE	TOTAL # OF
RANGES	TOTAL PLUX	TOTAL FLUX		LEVELS	INTEG FLUX	INTEG. FLUX	PANGES	NOT FAGUR	ACCUMULATED
(MEV)	#/CM*#2/SEC	#/CM##2/DAY	PER CENT	(A (M ())	4/CM# #2/SEC	#/CH##2/DAY	#/CM##2/5EC	(HOURS)	PARTICLES
005*- 0*	1.2985-01	1.122E 04	34,226	•	3.793 =-01	3.277E 04	ZERO FLLX	45.233	0.0
500-1-00	3.485E-02	3.011E 03	9.188	.250	2.134 f=C1	2.535E 04	1.E0-1.E1	2,717	4.124E 04
0-1-0	1.922E-02	1.661E 03	5.068	÷500	2+495 =-01	2.156E 04	1.E1-1.E2	0.050	1.870E 03
1.50-2.00	2.896E-02	2.502E 03	7.634	.750	2.2523-01	1.946F 04	1.E2~1.E3	. 0.0	0.0
2+00+2+50	3.896E-02	3.366E 03	10.272	1.00	2 . 146 =-01	1.854F 04	1.E3-1.E4	0.0	0.0
2.50-3.00	3,246E-02	2+805E 03	8.559	1.25	2.153 =-01	1,773年 04	1.54-1.65	0.0	0.0
00.4-0	7.4 55E-02	6.442E 03	19.656	1.50	1.354 =- 01	1.68BE 04	1.55-1.56	0.0	0.0
4.00-5.00	2.047E-02	1.769E 03	5,398	1.75	1.326 1-01	1.590E 04	1.E6-1.E7	0.0	0.0
5.00-0VER	0.0	0.0	0.0	2.00	1.565 =-01	1.43.8E 04	1.E7-0 VER	ú*0	0.0
				2+50	1.275 4-01	1.152E 04			
TOTAL	3.793E-01	3.277E 04	100.000	3+00	. 9 . 503 !-02	8.211E 03 .	TOTAL	48,000	4+311F 04
				3,50	5,3682-02	5.156E 03			
				4.00	2.347 3-02	1.769E 03			
				4.50	0.0	0.0			
				5.00	•••	0.0		•	

** ELECTRON FLUXES EXPENENTIALLY DECAYED TO 1972. C WITH LIFETIMES: 5.6.STASSINOPOULDS89.VERZAFIU ** CUTOFF TIMES:

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ENERGY	AVERAGED	AVERAGED	SPECTRUM	ENERGY	AVERAGED	AVERAGED	INTENSITY	EXPOSURE	TOTAL # OF
RANGES	TOTAL FLUX	TOTAL FLLX		LEVELS	INTEG.FLUX	INTEG.FLUX	RANGES	CURATION	ACCUMULATED
(HEV)	#/CM##2/SEC	#/CM+#2/E #Y	PER CENT	>{MEV)	#/CM*#2/SEC	#/CM##2/DAY	#/CM**2/SEC	(HOURS)	PARTICLES
005 0	3+182E 00	2.749E 05	54.337	÷	5.856E 30	5.759E 05	ZERG FLUX	42+050	3.6
. 500-1-005	6.418E-03	5.545E U4	10.960	+250	3.610E 2^	3.119E 05	1.E0~1.E1	2.417	4.309E 04
1.00-1.50	3.40 BE-01	2.944E 04	5.820	+800	2.674E 00	2.310E CS	1+61-1+52	3+533	4.190E 05
1.50-2.00	4+383E-01	3.787£ 04	7.484	.75	2.233E CO	1.929E CS	1,62-1,E3	د. () • ¢
2.00-2.50	4.692E-01	4.054E 04	8.012	1.00	2.032E CO	1.756E 05	1.63-1.64	0.0	7•0
2.50-3.00	3.068E-01	2+651E 04	5+240	1.25	1.963E 00	1.609E 05	1.50-1.55	Û.€	3*0
3.00-4.00	4.279E-C1	3.697E 04	7,307	ું કુ • 1	1.591€ 00	1.451E 05	1.E5~1.E6	ن د	J*0
4.00-5.00	4.925E-02	4.2556 03	0.841	1.75	1*493E 03	1.292E 05	1.E6-1.E7	0.0	9•6
3.00-0VER	0.0	0.0	0.0	20.6	1.253E 00	1.0936 05	1.E7-0VEP	0.0	0.0
				·2•50	7.939E-01	6.773E 04			
TOTAL	5.856E 00	5.059E 05	100.000	3+09	4.771E-C1	4.122E 04	TOTAL	48.000	4.621E #5
				3.50	2+327E-01	1.752E 04			
				00.4	4.9258-02	4.255E 03			
				4.50	0.0	2+0			
				500	0 0	¢•0			

** MAGNETIC COGRDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: CAINGLANGEL 143-TERM POGD 10/68 * TIME= 1970.0 **

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****** UTBOLKOT TO TOKUNG ORDIN DENKO ****				;			-	TATOOON THOUSAND AND AND AND AND AND AND AND AND AND	
AVE	AVERAGED	AVERAGED	SPECTRUM	ENERGY	AVERAGED	AVERAGED	INTENSITY	EXPOSURE	TOTAL # DF
TOT	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEGOFLUX	INTEG.FLUX	RANGES	DURATION	ACCUMULATED
0/4	#/CM*#2/5EC	#/CM##2/DAY	PER CENT	> (MEV)	#/CM##2/SEC	#/CN*#2/DAY	" "#YCHR#2/SEC" (HOURS)	" (HOURS)	PARTICLES
.0500 5.35	5.392E 01	4.659E 06	69-810	•	7.724E 01	6.674E 06	- ZERO FLUX	39.367	. 0.0
,	7.824E 00	6.760E 05	10.129	• 250	3.736E 01	3,228E 06	1.E0-1.E1	1.717	2.746E 04
00-1.50 3.6	3.678E OC	3.178E 05	4.752	005	2.332E 01	2.015E 06	1.61-1.E2	10 4 ac	5.724E 05
	4.227E 00	3.652E 05	5.472	.750	1.781E 01	1.539E 06	1.62-1.63	3,433	3.430E 06
	3.799E 00	3.282E 05	4.918	1.60	1,550E 01	1.339E 06	·····································	0.0	0*0
_	1.970E 00	1.702E 05	2,551	1,25	1.362E 01	1.177E 06	1.64-1.65	0*0	0.0
_	743E DC	1.506E 05	2,257	1.50	1.182E 01	1.021E 05	1525-1.56	0.0	0.0
	7.830E-02	6.765E 03	101.0	1+75	9.847E 00	8.5085 05	1.66-1.67	0.0	0.0
5.00-0VER 0.0		0.0	0.0	2.00	7.591E 00	6.559E 05	1.E7-0VER	0.0	.0.0
				2,50	3,792E 00	3.276E 05			
7.7	7.724E 01	6.674E 06	100,000	3.00	1.822E 00	1.574E 05	TOTAL	48.000	4.030E 06
				3.50	4.865E-01	4.203E 04			
				00.4	7.830E-02	6.765E 03		:	
				4.50	0.0	0.0		:	
				00.0	0.0				

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***** SPECTRUM IN PERCENT DELTA ENERGY *****	CIRCH IN PERCE						TANDOCKE INDENSITED ASSOCIATED TO THE PERSON OF THE PERSON		
ENERGY	AVERAGED	AVERAGED	SPECTRUM	ENERGY	AV ERA SED	AVER AGED	INTENSITY	EXPOSURE	TOTAL # OF
PANGES	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG.FLUX	INTEG.FLUX	RANGES	DURATION	ACCUMULATED
(MEV)	#/CM+ *2/SEC	#/CM*#2/DAY	PER CENT	> (MEV)	#/CMN #2/SEC	#/CM**2/DAY	#/CM##2/5EC	(HOURS)	PARTICLES
3.00-5.00	5.7385-01	4.9585 04	72.248	3.00	7.1433-01	6.862E 04	ZERO FLLX	42,283	0.0
5.00-10.0	5.0535-02	4.3655 03	6.361	4.00	2.7543-01	2.414€ 04	1.50-1.61	5.717	3.809E 04
10.0-15.0	6.013≅-03	5.195E 02	0.757	5.00	2 - 204 3-01	1.904E 04	1.E1-1.E2	0.0	0.0
15.0-20.0	3.9575-03	3.419E 02	654.0	7.00	1 . 735 3-01	1.502E 04	1.62-1.63	0.0	0.0
20 -0- 28 - 0	3.4245-04	2.958F 01	0.043	10.0	1.655 3-01	1.46PE 04 .	1.E3-1.E4	0.0	0.0
25.0-30.0	8.506E-04	7,350E 01	101.0	12.0	1.657 3-01	1.432E 04	1.54-1.55	0.0	0.0
30.00-50.0	8.4345-04	7.287E 01	0.106	15.0	1.635 3-01	1.416F 04	1.65-1.66	0.0	0.0
50.0-100.	1.108E-62	9.577E 02	1,396	18.0	1.512 =-01	1.392E 04	1.56-1.87	0.0	0.0
100OVER	1.468E-01	1,2685 04	18,483	20.0	1+5553-01	1.382E 04	1.E7-0VER	0.0	0.0
				25.0	1.556 5-01	1.379E 04			
TOTAL	7.943E-01	6.862E 04	100,000	30.0	1.387 2-01	1,371E 04	TOTAL	48.000	3.809E 04
				20.0	1 - 575 3-01	1.364E 04			
				90.09	1.5463-01	1.336E 04			
				70.0	1 + 3Ce 3-01	1.301E 04			
				100.	1.4633-01	1.268E 04			

** MAGNETIC COURDINATES B AND L COMPUTED BY IVVARA OF 1972 WITH ALLMAS. MODEL 3: CAINELANGEL 143-TERM POGO 10/68 # TIME# 1970.0 ## 550KM ## 8/L OPPIT TAPE: TD8161 ## DEGIOD= 1.504 ## 00EG ** PEP [GEE= 550K% ** 400GEE= ** INCLINATION= ** VEHICLE : UK-5 0/550

*** HIGH FNERGY PROTONS ***

30S #####	***** SPECTRUM IN PERCENT DELTA ENERGY ****	INT DELTA ENER	CV ****	*** COW	*** COMPOSITE DABLT SPECTRUM. ***	PECTRUM ***	* EXPOSURE	* EXPOSURE INDEX-ENERGY NS.0045V *	* AEMOO*S<
ENERGY	AVERAGED	AVERAGED	SPECTRUM	ENERGY	AVERAGED	AVERAGED	THENSITY	EXPOSURE	TOTAL # .DE
PANGES	TOTAL FLUX	TOT AL FLUX		LEVELS	INTEG.FLUX	INTEG. FLUX	SHUNAG	DUPATION	ACCUMUL ATES
(MEV)	#/CM*#2/SEC	#/ CM##2/D4Y	PEP CELT	> (MEV)	97CM**278#C	#/CM##5/04Y	#/CM#E2/SEC	(SECONDES)	DARTICLES .
3.00-5.00	1.379€ 01	1.191E 06	90.884	3.00	1.5175 01	1.3115 06	ZERO FLUX	38.233	0.0
5.00-10.0	2+054F-01	1.775E 04	1.354	4.00	1,9117 00	1.651 05	1.E0-1.E1	7,117	9.518E 04
10.0-15.0	i • 022€ -01	8.827E 03	0.674	5.00	1.387E 00	1.195= 05	1.F. F. 1. F.	P.450	1.4385 05
15.0-20.0	6 . 780E 02	5.858E 03	0 • 447	7.00	1.252= 00	1.0827 05	E2-1.F3	0.0	0.0
20.0-25.0	5 + 200E-03	4.493E 02	0.034	10.0	1.1775 00	1,0175 05	なは ● 第一位 国 ●	0.0	0.0
25.0-30.0	1.284E-02	1.110E 03	0.085	12.0	1.108E 00	9,573# 04	1.64-1.55	0.0	0.0
30.0-50.0	1 - 2 6 2 E - 0 2	1.0918 03	0.083	15.0	1.0754 00	9.200= 04	AH + 1 + 2 H + 1	0.0	0.0
50.0-100.	1.4336-01	1.239E 04	0.945	18.0	1.0285 00	8.9815 04	1.86-1.87	0.0	0.0
100OVER	8.334E-01	7.201E 34	5.494	20.0	1.007E 00	P+704= 04	* * F7-UVE9	0.0	0.0
				25.0	1.002 = 00	8,6595 04			
TOTAL	1.5176 01	1.311E 06	100-001	30.0	9.8945-01	8.548= 04	T FOT ALL	46.000	2.389F 05
				50.0	9,7675-01	8.430E 04			
				60.0	0.283E+01	A.021E 04			
				70.0	9.784E-01	7.5895 04			
				100.	8.3345-01	7.201E 04			

70.0 **

*	MAGNETIC	COORDINATES 8	AND L TOMPUT	ED BY INVARA OF	1972 WITH A	LLMAG. MCDEL	** MAGNETIC COORDINATES 8 AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MCDEL 3: CAINELANGEL 143-TERM POGO 10/68 * TIME= 1970	143-TERM POGO	10/68 * TIME	= 1970
1	VEHICLE :	INVITATION 10	A INCLINATION	ONE ODER ** DER	GEE= 650#	CA ** APOCEE=	IONS ODEG ** PERIGEES 650%* ** APDGEES 650%* ** PERIODS 1.6	RBIT TAPE: TD8	161 ** PERIO	9 1 =
+				10.10.10.10.10.10.10.10.10.10.10.10.10.1	HIGH ENE	OF PROTONS	***************************************			
1		-								
1	*****	TRUM IN PERCE	- ***** SPECTRUM IN PERCENT DELTA ENERGY *****	***** 10	*** COMPC	*** COMPOSITE ORBIT SPECTRUM ***	PECTRUM ***	* EXPOSURE	* EXPOSURE INDEX-ENERGY >5.00	>2.004
÷	ENERGY	AVERAGED	AVERAGED TO TAL FILLY	SPECTRUM	ENEPGY	AVERAGED	AVERAGED INTEGRATION	INTENSITY OF AND A STATE OF AND A STATE OF A	E XPOSURE	TOTAL
i	(MEV)	#/CM##2/SEC	4/CM**2/DAY	PER CENT	>(MEV)	#/CM*# 2/ SEC	#/CM##2/DAY	#/CM **2/ SEC		PARTIC

345 ****	CTRUM IN PERCE	- ***** SPECTRUM IN PERCENT DELTA ENERGY ***	***** 40	***	*** COMPOSITE ORBIT SPECTRUM ***	PECTRUM ***	* EXPOSURE	# EXPOSURE INDEX-ENERGY >5.00MEV #	>5.00MEV #
ENERGY	AVERAGED	AVERAGED	SPECTRUM	ENEPGY	AVERAGED	AVERAGED	INTENSITY	E XPOSURE	TOTAL # OF
NAN GRIG	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG.FLUX	INTEG.FLUX	RANGES	PURATION	ACCUMULATED
(NEV)	#/CM **2/ SEC	4/CM**2/DAY	PER CANT	> (MEV.)	#/ CM*# 2/ SEC	#/CM##2/DAY	#/CM ** 2/ SEC		PARTICLES
3.00-5.00	7.963E 01	6. EBOE G6	602*06	C 0* £	8.817E 01	7.6185 06	ZERO FLUX	33,550	0.0
5.00-10.0	1.4115 00	1.219€ C5	1.600	4 +03	1.277F 01	1.164E 06	1.E0-1.E1	5.783	5.710E 04
	9.477E-01	6.186€ 64	1.075	S +03	8.545E 00	7.383E 05	1.E1-1.E2	B.050	1.167E 06
15.0-20.0	6.231E-01		0.707	7.00	7.856F 00	6.788E 05	1.E2-1.E3	0.617	2.526E 05
20.0-25.0	6.5645-02	5.6725 63	0.074	10.0	7.134E 00	6.164E 05	1.63-1.E4	0.0	0.0
25+0+30+0	1.561E-01	1.3485 C4	0.177	12.0	6.485E 00	5.6038 05	1.54-1.55	0.0	0.0
30.0-50.0	1.457E-01	1.259€ C4	0.165	15.0	6.186€ 00	5.345E 05	1.65-1.56	0.0	0.0
50.0-100.	1+246E 00	1.0765 05	1.413	18.3	5.764E 00	4.980F 05	1 4E.6-14E7	o•0	0.0
100OVER	\$.950E 00	3,4137 05	4.480	20.0	5.563E 00	4.B06£ 05	1 .E 7-0VER	0.0	0*0
				25.0	5.497F UD	4.750E 05			
TOTAL	8.817E 01	7.6185 06	100.000	30.0	5.341E 00	4.615E 05	TOTAL	48,000	1.477E 06
				50.0	5.195F 00	4.489€ 05			
				60.0	4.589E 00	4.051E 05			
				70.0	4.285E 00	3.702E 05			
,				100	3.9505 00	3.413E 05			

MAGNETIC CDORDINATES B AND L COMPUTED BY INVARA JF 1972 WITH ALLAAG, MODEL 3: CAINGLANGEL 143-TERM FOGO 10/69 * TIME= 1970-0 **
** VEHICLE: UK-5 3/450 ** INCLINATION= 3DEG ** PERIGEG= 45)/M ** APOGE= 450KM ** B/L DPBIT TAPE: TD5247 ** PERIDD= 1-350 **
** VEHICLE: UK-5 3/450 ** INCLINATION= 3DEG ** PERIGEG= 45)/M ** APOGE= 450KM ** B/L DPBIT TAPE: TD5247 ** PERIDD= 1-350 **
*** VEHICLE: UK-5 3/450 ** INCLINATION= 3DEG ** PERIGEG= 45)/M ** APOGE= 450KM ** B/L DPBIT TAPE: TD5247 ** PERIDD= 1-350 **
*** VEHICLE: UK-5 3/450 ** INCLINATION= 3DEG ** PERIDD= 1-350 **
*** VEHICLE: UK-5 3/450 ** INCLINATION= 10/45/** PERIDD= 1-350 **
*** VEHICLE: UK-5 3/450 ** INCLINATION= 10/45/** PERIDD= 1-350 **
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*** VEHICLE: UK-5 3/450 ** INCLINATION= 10/45/** PERIDD= 1-350 **
*** VEHICLE: UK-5 3/450 ** INCLINATION= 10/45/** PERIDD= 1-350 **
*** VEHICLE: UK-5 3/45/** PERIDD= 10/45/** PERIDD= 10/

(Handa Spin	***** SPECTRUM IN PERCENT DELTA ENERGY ***	INT DELTA ENER	***** 10	***	*** COMPOSITE DPBIT SPECTRUM ***	PECTRUM ***	* EXPOSURE	* EXPOSURE INDEX-ENERGY >5.00MEV #	>5.00MEV #
ENERGY	AVEPAGED	AVERAGED	SPECTRUM	ENERGY	AV ERA GED	AVERAGED	INTENSITY	EXPOSURE	TOTAL # OF
PANGES	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG .FLUX	INTEG.FLUX	PANGES	DURATION	ACCUMULATED
(MEV)	#/CM##2/SEC	#/CN++2/DAY	PER CENT	> (MEV)	#/ DM# #2/SEC	#/CN*#2/04Y	#/C###2/SEC	(SADOH)	PARTICLES
3.00-5.00	8.325E-01.	7.192E 04	76.025	3.00	1.3953.00	9.461E 04	ZERO FLLX	42.633	0.0
5.00-10.0	5.308E-02	S. 018E 03	5,304	4.00	3 - 369 2-01	2.910E 04	1.E0-1.E1	5,367	4.536E 04
10.0-15.0	9.828E-03	8.491E 02	968-0	5.00	2,325=-01	2.268E 04	1.E1+1.E2	0.0	. 0*0
15.0-20.0	6.740E-03	5.824E 02	0.616	1.00	2.1153-01	1.827E 04	1.E2-1.E3	0.0	0.0
20.0-25.0	5.492E-04	4.745E 01	0.050	10.0	2.345 =-01	1.765E 04	1.53-1.54	0.0	0.0
25.0-30.0	1.363E-03	1.178E 02	0.125	12.0	1.376 3-01	1.70 9F 04	1.E4-1.E5	0.0	0.0
30 * 0 * 20 * 0	1.697E-03	1.466E 02	0.155	15.0	1.3463-01	1.682E 04	1.55-1.56	0.0	0.0
50.0-100.	1.69BE-02	1.467E 03	1.551	16.0	1.100 3-01	1.641E 04	1.E6-1.E7	0.0	0.0
1000VER	1.673E-01	1.445E 04	15.278	.20.0	1.879 3-01	1.623E 04	1.67-0 450	0.0	0.0
				25.0	1.3733-01	1.6195 04			
TOTAL	1.095E 00	9.461E 04	100.000	30.0	1 .366 3-01	1.697E 04	TOTAL	9 B • 000	4.536E 04
				20.0	1.343 :- 01	1.592E 04			
				0.09	1.750 3-01	1.547E 04			
				.70.0	1.736 3-01	1.494E 04			
				100	1,573 5-01	1.445E 04			

*****	***** SPECTFUM IN PERCENT DELTA ENERGY ****	INT DELTA ENERI	*****	*** COMP	*** COMPOSITE ORBIT SPECTRUM ***	PECTRUM ***	* EXPOSURE	* EXPOSURE INDEX-ENERGY >5.00MEV *	>5.00MEV #
ENERGY	AVERAGED	AVERAGED	SPECTRUM	ENERGY	AVERAGED	AVERAGED	INTENSITY	EXPOSURE	TOTAL # OF
RANGES	TOTAL FLUX	TOTAL FLLX		LEVELS	INTEG. FLUX	INTEG+ FLUX	RANGES	DURATION	ACCUMULATED
(MEV)	#/CM##2/SEC	4/CM+#5/EAY	PER CENT	>(MEV)	#/CN##2/SEC	#/CM**2/DAY	#/CM**2/SEC	(HOURS)	PARTICLES
3.00-5.00	1.492E 01	1.289E 06	90.123	3.00	1,656€ 61	1.4312 46	ZERO FLUX	565 + B5	0.0
5.00-10.0	2.478E-01	2.141E 04	1.497	4.03	2.259E 00	1+952E 05	1.EC-1.E1	6.783	7.789E CA
10.0-15.0	1.340E-01	1.158E 04	608-0	5.0)	1.635€ 00	1.4136 05	1.E1-1.E2	2.683	2+047E 05
15.0-20.0	8.782E-02	7.588E 03	0.530	7.03	1.487E 00	1.284E AS	1+E2-1+E3	0.0	0.0
	6+580E-03	5.685E 02	0.000	10+0	1.388E 00	1.199E 05	1.63-1.54	0.0	0.0
25.0-30.0	1.624E-02	1.403E 03	860*0	12.0	1.296E CO	1+12CE 05	1.E4-1.E5	0.0	0.0
30.0-50.0		1.377E 03	960.0	15.0	1.254E 00	1.083E 05	1.E5-1.E6	0.0	0.0
50.0-100.	1 . 78 3E-01	1.541E 04	1.077	0 4 87	1+192E CO	1.030E 05	1.E6-1.E7	C+0	0+0
1000VER	9.487E-01	8.197E 04	5.730	20.0	1.1665 00	1.007E 05	1.E7-0VER	0.0	0.0
				25.0	1+159E 00	1.602E 05			
- TOTAL	1.656E 01	1.431E 06	100.000	30.0	1.143E 00	9+875E 04	TOTAL	48.000	2.826E 05
				59.0	1.127E 00	9.737E 04			
:				60.09	1.056E G9	9.211E 04			
-				20.07	1.304E 00	8.676E 04			
				100.	9.487E-01	8.197E C4			

TOROTA PLUX STUDY WITH COMPOSITE PARTICLE FIVE OF THE PARTICLE FOR THE CORPORATE THE COMPOSITE FOR THE PARTICLE FOR THE PARTI ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AE4. AE5. AP5. AP5. AP7. *** PROCEDURE : UNIFLUX OF 1972 ** ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972: O'WITH'LIFETIMES! E.G.STASSINDPOULOSEP.VERZARIU ** CUTOFF TIMES: ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: CAINCLANGEL 143-TERM POGO 10/68 # TIME= 1970.0 ## ** VEHICLE : UK-5 : 3/650 - ** "INCLINATION" : 3DEG" ** "PERIGEE" - \$50KM - ** "BOGEE" - 650KM - ** "B7L - 0881T" TAPET - TD5247 - ** PERIGO * - 1 : 629 - **

)3d\$****	**************************************	ENT DELTA ENER	1GY ******	COMP	###"COMPOSITE"ORBIT"SPECTRUM"##	PECTRUM ***	* EXPOSURE	FEXPOSURE INDEX-ENERGY >5:00MEV**	>5.00MEV*
ENERGY" AVERAGED	AVERAGED	** AVERAGED*** ** SPECTR	- SPECTRUM	ENERGY	AVERAGED	-AVERAGED	TNTEWSITY	··· E XPO SURE ···	TOTAL & OF
RANGES	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG.FLUX	INTEG.FLUX	RANGES	DURATION	ACCUMULATED
(MEV)		"-F/CH##2/DKY""PER"CE	PER CENT		#/CHF#2/SEC	*/CH**2/DAY	#/CH##2/SEC	(HOURS)	PARTICLES
3.00-5.00	. 10.3948.6.	7.384E 06	89.741	3.60	9.523E-01	8.228E 06	ZERO-FLUX	33+700	0.0
5.00-10.0	1.675E 00	1.447E 05	14758	4.00	1.439E 01	1.244E 06	1.E0-1.E1	5.950	6.079E 0
-10.0-15.0	- 1-144E-00 -	94884E 04	1.201	00°S	9.769E 00	8:441E-05	1.61-1.62	7:217	1.030E 0
15.0-20.0	7.370E-01	6.367E 04	0.774	7.00	8.975E 00	7.755E 05	1.E2-1.E3	1,133	5.977E 0
20.0-25.0	7:055E-02	65 096E "03""	#20.0	10.0	8*095E 00	6.9942 05	1.663-1464	0.0	0.0
25.0-30.0	1.674E-01	1.446E 04	0.176	12.0	7,310E 00	6.316E 05	1.E4-1.ES	0.0	0.0
30.0-50.0	1.562E-01	1.350E 04	0.164	15.0	6.9512 00	6.0062-05	1.55-1.66	0.00	0.0
50.0-100.	1.378E 00	1. 191E 05	1.447	16.0	6.446E 00	5.570E 05	1.E6-1.E7	0.0	0.0
100 DVER	. 4.41E-00 -	3.837E 05 "	4.664	0.02	43-214E-00	-5=369E-05-	1.E7-0VER	0.0	-0:0
				25.0	6.143E 00	5.308E 05			
TOTAL	TOTAL9.523E 018.228E 06100.00	8.228E 06		30.0	52978E-00	-5-163E-09	TOTAL		-1.668E 06
				50+0	5.820E 00.	5.028E 05			
	:		:		- 5.274E-00:-	- 4:557E-05			:
				70.0	4.820E 00	4.164E 05			
:	::			1004	4.441E 00	3.63TE 05		A	

TOUS TO FLUX STUDY WITH COMPOSITE DADTER BENEVALUE FOR STATE AND STATE BENEVALUE OF THE STATE OF *# ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AE4, AE5, AP1, AP5, AP6, AP7 #### PROCEDURE : UNIFLUX OF 1972 ## ## ELECTRON PLUXES EXPONENTIALLY DECAMED TO 1972, O WITH LIFET143S: E+3,STASSINGPOULDSD?,VERZARIU ## CUTOFF TIMES:

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∢	AVERAGED	AVERAGED	SPECTRUM	ENERGY	AV ZRA SED	AVERAGED	INTENSITY	EXPOSURE	TOTAL # OF
-	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG.FLUX	INTEG.FL UX	RANGES	DURATION	ACCUMULATE(
*	#/CM**2/SEC	#/CM##2/DAY	PER CENT	> (MEV)	#/ CM# #2/SEC	#/CM##2/DAY	#/C### 2/SEC	(HOURS)	PART I CLES
.100500 4	4.719E-02	4.077F 03	6.392	•100	7.3636-01	6.379E 04	ZERO FLLX	42,317	0.0
9 006 008	6.915E-02	5.575E 03	9.367	•300	7.142 2-01	6.171E 04	1.E0-1.E1	4.367	5.491E 04
900-1-10 5	5.708E-02	4.931E 03	7,731	.500	6.311 5-01	5.971E 04	1.E1-1.E2	1.317	7.267E 04
	9.2 89E-02	8.026E 03	12,582	• 700	6+507 3-01	5.777E 04	1.62-1.63	0.0	0.0
1.50-2.00 B	8.5705-02	7.405E 03	11.608	006.	6.226 5-01	5.374E 04	1.E3-1.E4	0.0	••
	6.1765-02	5.336E 03	8,365	1.10	5.549 5-01	4.881E 04	1.64-1.65	0.0	0.0
	4.515E-02	3.901E 03	6,116	1.30	5.152 2-01	4.452E 04	1.E5-1.E6	•	0.0
	3.3565-02	2.899E 03	4.545	1.50	4 + 726 =-01	4.078E 04	1.66-1.67	0.0	•••
3.50-0VER 2	2.458E-01	2.124E 04	33,294	1.75	4 - 2563-01	3.677E 04	1.E7-0VER	0:0	0.0
				2.00	3.3633-01	3.337E 04			
۴	7.3832-01	6.379E 04	100.000	2.25	3.329 =-01	3.049E 04	TOTAL	46.000	1.276E 05
				2.50	3 - 245 2-01	2.804E 04			
				2.75	3.3025-01	2.594E 04			
				3.00	2.754 3-01	2.414E 04			
				3.50	2.456 2-01	2,124E 04			

TOUGHTAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AS4, AS5, AP1, AP5, AP5, AP7 **** PROCEDURE: UNIFLUX OF 1972 **

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AS4, AS5, AP1, AP5, AP5, AP7 *** PROCEDURE: UNIFLUX OF 1972 **

** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972, O WITH LIFETIMES: E.G. STASSINGPOLLOSEP.VEPZARIO ** CUTOFF TIMES:

** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAS, MODEL 3: CAINFLANGFL 143-TFOW POGG 10/69 * TIMES: 1970.0 **

** VEHICLE: UK-S 0/550 ** INCLINATION: ODEG ** PERIGEE: 550KM ** AD0GEE: SROKE ** DATE **

***** ***** PPOTONS

105 ******	***** SPECTRUM IN PERCENT DELTA ENERGY ****	ENT DELTA ENER	44**** KG	1900 ***	*** COMPOSITE DABLE SPECTAUM ***	SOECTAUM ***	+ FXDOSUBE	* FXPOSURE INDEX-DAMPORY >=10040V ×	>=10045V ×
ENERGY	AVERAGED	AVERAGED	SPECTRUM	ENEPGY	AVERAGED	AVERAGED	YTI SNUT I	EXOUSTION	TOTAL # 0=
RANGES	TOTAL FLUX	TOTAL FLUX		LEVELS	INTES.FLUX	INTEG. FLUX	SHUN E	MIDATION	ACCUMIN, ATTO
(MEV)	#/CM**2/SEC	#/ CM*#2/DAY	PER CENT	> (MEV)	#/CM*#2/SEC	#/CM*#2/DAY	4/CM**2/SEC	(Banua)	PAPTICLES
.100500	1.474E 00	1+273E 05	12.789	.100	1.1523 01	\$0 39£6*6	XATO DOSE	38.150	0.0
. 500900	1.966E 00	1.699€ 35	17.065	• 300	1 • 0 7 6 5 01	9,296= 05	**£0-1.F1	34213	6.8465 04
. 900-1.10	1.443E 00	1.246E 05	12.523	• 500	1.0055 01	8.6837 05	1.61-1.65	009*	5.375E 05
1+10-1+50	1.983€ 00	1.714E 05	17.212	• 700	9.391E 00	A.1145 05	1.88-1.8FB	FE6*0	1.1859 06
1.50-2.00	1.439E 00	1+243E 05	12.489	006	9.083E 00	5.984E 05	1.63-1.54	0.0	. 0.0
2 - 00 - 2 - 50	8+164E-01	7.054E 04	7.085	1.10	\$.640F 00	5.737. 05	1.54-1.55	0.0	0.0
2.50-3.00	4.906E-01	4.239E 04	4.259	1.30	5,5255 00	4.773€ 05	1.55-1.66	0+0	0.0
3,00-3,50	3.137E-01	2.711E 04	2.723	1,50	4.6575 00	4.024E 05	1.456-1.457	0.0	0.0
3.50-0VER	1 .597E 00	1.380E 05	13,860	1 -75	3.832F 00	3.311F 05	1.E7-4VER	0.0	0.0
				5.00	3.218E 00	2.7805 05			
TOTAL	1 - 1 52E 01	9.º56E 05	100 *000	2.75	2,755₹ 00	2. 380E 05	TOTAL	48.000	1.9915 06
				2.50	2.402E 00	2.075F 05			
				2+75	2,127F 00	1.8385 05			
				3.00	1,9115 00	1+5512 08			
				3.50	1.597F 00	1.3805 05			

** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MCDEL 3: CAINELANGEL 143-TERM PDGO 10/68 * TIME = 1970.0 ** ... * VEHICLE : UK-5 0/650 ** INCLINATION = ODEG ** PERIGEE = 650KM ** APDGEE = 650KM ** BAL ORBIT TAPE: TD8161 ** PERIOD = 1.629 **

***	化液环试验 拉拉斯 经银格 医医性性病 医乳球球球 化苯酚苯酚 医格勒特氏 化苯甲苯甲基甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲
PROTONS	****
LCW ENERGY PROTONS	*****
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***	医动物性的 计非常有限分类的

ENERGY	AVERAGED	AVERAGED	SPECTRUM	ENERGY	AVERAGED	AVERAGED	INTENSITY	EXPOSURE	TOTAL # CF
RANGES	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG.FLUX	INTEG.FLUX	PANGES	OURA TI ON	ACCUMULATED
(MEV)	#/CM **2/ SEC	#/CM+#2/CAY	PER CENT	> (MEV)	#/CM*# 2/ SEC	#/CM*#2/DAY	#/CM##2/SEC	(HOURS)	PARTICLES
*100500	9.000E 00	7.7765 05	14.239	.100	6.3215 01	5.461E 06	ZERO FLUX	33,533	0.0
.500900	9.505E 00	8.299E 05	15,197	.300	5.853E 01	5.057£ 06	1.60-1.51	2,250	3.803E 04
.900-1.10	5.975E 00		9.453	.500	5.421F 01	4.684E 06	1.E1-1.E2	6.400	1.044E 06
1.10-1.50	9.217E 00	7.963€ 05	14.582	.700	5.022E 01	4.339£ 06	1.62-1.63	5.183	7.271E 06
1.50=2.00	7.866E 00		12.445	.905	4.460E 01	3.854E 06	1.53-1.54	0,633	2.569E 06
2.00-2.50	5.224E 00		8.266	1:10	3.863E 01	3.337E 06	1.54-1.55	0.0	0.0
2.50-3.00	3.546E 00	3.06年 05	5.610	1.30	3.362E 01	2,905E 06	1.ES-1.E6	0.0	0.0
3.00-3.50	2.466E 00	2.1315 05	3,902	1.50	2.941E 01	2.541E 06	1.E 6-1.E 7	0.0	0.0
3+50+DYER	1.031E 01	8.906E 05	16.308	1+75	2,507E 01	2,166E 06	1+£7-0VER	0.0	0.0
				2 •00	2.154E 01	1.861E 06			
TOTAL	6.321E 01	€. 461E 06	100.000	2.25	1.867E 01	1.613E 06	TOTAL	46.000	1.092E 07
				2.50	1.632E 01	1.410E 06			
i , : .				2 +75	1.438E 01	1.243E 06			
				3.00	1.277F 01	1.1046 06			
i				3.53	1.031E 01	8.906E 05			

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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AE4. AE5. AP5. AP5. AP6. AP7 *** PROCEDURE : UNIFLUX OF 1972 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 3: CAINGLANGEL 143-TERM POGO 10768 # TIME= 1970.0 ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972. O WITH LIFETIASS: E.3.STASSINDPOULDS62.VE4ZARIU ** CUTOFF TIMES:

.... ENERGY PROTONS ****

ACCUMULATED 9 9 1.707E 05 >.100MEV * TOTAL # DF PAPTICLES 3660 * 1 6.087E 0.0 0.0 0.0 0.0 0:0 0.0 * EXPOSURE INDEX-ENERGY EXPOSURE: DURATION 4.133 48.000 (HOURS) 1.233 42.633 0:0 0 • 0.0 000 0.0 #/CM##2/SEC INTENSITY ZERO FLUX 1.E5-1.E6 1.E0-1.E1 1+E1-1 4E2 -ES-1.53 .E3-1.E4 .E4-1.E5 .E6-1.E7 1.E7-0 VER RANGES #/CH## 2/D4 Y *** CON 20SITE 33BIT SPECTRUM ### INTEG FLUX \$ 4 9 9 ö 4 AVE 2 AGED 8.537E 8.20 0E 6.250E 5.636E 4.107E 3.727E 3.40 BE 7.682E 7.578E 6+970E 5.113E 4+563E 3.139E 2.910E #/CM##2/SEC INTEGAPLUX 6.5233-01 9.380 3-01 9 4 4 5 1 3 - 0 1 9.1233-01 9.165 2-01 7.2535-01 5.9183-01 4.314 =-01 3.9452-01 9.770 E-01 5.2615-01 4.753=-01 3.533=-01 3 - 365 3-01 AV ERA GED LEVELS ENERGY < MEV > 7.3 100 300 500 .900 : 1.30 . 50 2 + 00 2 - 25 2.50 2,75 3.00 ***** SPECTRUM IN PERCENT DELTA ENERGY **** SPECTRUM PER, CENT 0.683 3,317 8.44.9 29.788 7.664 11.784 8.183 4.306 5.831 100.000 #/CM##2/DAY TOTAL FLUX 6 8 9 ē 9 8 8 8 9 9 AVERAGED 6.842E 8. 537E 9.120E 4.578E 2.543E 7.209E 1.137E 6.986E 3.676E 1.006E # /CH+*2/SEC TOTAL FLUX 4.254E-02 7.572E-02 .+056E-01 8.3445-02 .316E-01 .164E-01 8.085E-02 5.761E-02 2+943E+01 9.8805-01 AVERAGED .100-.500 -500--900 2+50-3+00 ENERGY . .900-1.10 1-10-1-50 1.50-2.00 2,00-2,50 3.00-3.50 3.50.0VER RANGES TOTAL (NEV)

2.54 JE

2.343=-01

** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: CAINGLANGEL 143-TERM POGD 10/68 * TIME= 1979.0 ** 4**. VEMICLE : UK-5 3/550 ** INCLINATION= 3DEG ** PERIGEE 550KM ** APOGEE= 550KM ** B/L ORBIT TAPE: TD5247 ** PERIOD= 1.594 ** - ** VEHICLE : UK-5 3/550

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3dS *****	CTRUM IN PERCE	- ettett SPECIFUM IN PERCENT DELIA ENERGY ****	***** A91	*** COM	*** COMPOSITE ORBIT SPECTRUM ***	PECTRUM ***	* EXPOSURE I	* EXPOSURE INDEX-ENERGY >+100MEY *	>+100MEV #
FNERGY	AVERAGED	AVERAGED	SPECTRUM	ENERGY	AVERAGED	AVERAGED	INTENSITY	EXPOSURE	TOTAL # OF
RANGES	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG.FLUX	INTEG.FLUX	RANGES	DURATION	ACCUMULATED
-(MEV)	-#/CM##2/SEC	#/CM##2/EAY	PER CENT	>(MEV)	#/CM*#2/SEC	#/CM*#2/0AY	#/CM##2/SEC	(HOURS)	PARTICLES
*100200	1.564E 00	1.351£ 05	12,742	.100	1+227E 01	1.C61E 06	ZERO FLUX	38 - 117	0*0
************	2.020E 00	1.745E 05	16.454	• 300	1.1466 01	9.905€ 05	1.E9-1.E1	2.917	4.825E 04
.900-1-10	1.448E 00	1.251E 05	114794	• 500	1.071E 01	9.254E 05	1.61-1.62	2.000	6+326E 05
1.10-1.50	2.027E 00	1.751E 05	16.510	.790	1.001E 01	8+650€ 05	1.E2-1.E3	1.96?	1.440E 06
1.50-2.00	1.514E 00	1+303E 05	12,338	996.	8.691€ 00	7.509E 05	1.E3-1.E4	0.0	J*0
2*00-2*50	8.502E-01	7.691E 04	7+252	61.1	7.243E CC	6.258E 05	1.64-1.65	0.0	0.0
2.50-3.00	5.537E-01	4.784E 04	4.511	1.39	6.110E CO	5+279E 05	1.65-1.66	0.0	0.0
3+00-3+50	3.660E-01	3.162E 04	2.982	05 • 1	5.217E CO	4.507E 05	1.65-1.67	¢•0	0.0
3-50-DVER	1.893E 00	1.635E US	15+421	1.75	4+355E 00	3.763E 05	1.E7-0VER	0.0	0.0
				2.03	3.703E 00	3+199E 05			
	4.227E 01	1.361E 06	100.000	2.25	3.202E 00	2.767E 05	TOTAL	48+000	2.121E C6
				2.50	2+813€ 00	2.430E 05			-
				2.75	2.505E 00	2.164E 05			
				3.00	2,259E 00	1.952E 05			

1.635E 05

1.893E 00

3.50

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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AE4, AE5, AP5, AP6, AP7 *** PROCEDURE : UNIFLUX OF 1972 ** 4# MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: CAINCLANGEL 143-TERM POGO 10/60 # TIME= 1970+0 ## ** YEHICLE : UK-5 3/650 ## INCLINATION=** 3066 ## PERIGEE= 650KM *# *APOGEE=*** 650KM *# B/L ORBIT TAPE: TO5247 ## PERIGD= 1.629 ## ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972. O WITH LIFETIMES: E.G.STASSINOPOVLOSSP.VERZARIU ** CUTOFF TIMES:

Y PROTONS	******	
LOW ENERGY PROTONS	******	
****	计分类数 化苯基苯酚 计分类 计分类 化二苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	

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ENERGY AVERAGED AVERAGED SPECTRUM ENERGY AVERAGED RANGES TOTAL FLUX TOTAL FLUX TOTAL FLUX TOTAL FLUX LEVELS INTEG.FLUX ***IDO+**SOD ***CM***Z/SEC ***CM***Z/DAY PER CENT >***IMEV) ***TMEV) ***TMEV) ***TMEY) ***TMEY)	SPECTRUM AY PER CENT 14:298 15:146 9:294	AVERAGED INTEG-FLUX #/CH##2/SEC 6-81SE 01 6-30SE 01 5-840E 01	AVERAGED RANGES #/CM##2/DAY #/CM##2/56 5.888E 06 7560 FLUX 5.450E 06 7560 FLUX 4.457E 06 7561-62 4.57E 06 7561-62 4.57E 06 7561-62 4.53-1.64	INTENSITY EXPOSURE #ANGES DURATION #YCM##2/SEC "(HDURS) ZERO FLUX 33.600 1.50-1.61 2.500 1.61-1.62 5.167	ACCUMULATED PARTICLES 0.0 0.0 7.203E 04 7.203E 05 7.209E 05
9.744E 00 8.419E 05 14.298	14.298	6-308E 01 5-80E 01 5-80E 01		2/SEC :: (HDURS) LUX 33.600 -E1 2.500 -E2 5.167	0.0 4.203E 04 7.970E 05 7.330E 06
9.744E 00 8.419E 05 14:298	14.298	6.306F01			0.0 4.203E 04 7.970E 05 7.708E 06
1.032E 01 8.918E 05 15.146 .300 6.308E 6.336E 6.334E 00 5.472E 05 "9.294" .5640E 9.731E 00 8.40E 05 14.279 .700 5.409E 9.293E 00 7.165E 05 12.169 .900 4.808E 5.535E 00 4.75E 05 8.122 1.30 4.175E 3.795E 00 3.202E 1.30 3.202E 1.172E 01 1.012E 06 17.192 1.75 2.744E	15+146 -9-29#::	6.308E 01 5.409E 01			4.203E 04 7.970E 05 7.708E 06 3.230E 06
6.334E 00 \$.472E 05 "9.294"5005.840E 9.731E 00 8.409E 05 14.2795.840E 9.294E 00 7.165E 05 12.169900 4.809E 9.835E 00 4.702E 05 8.122 1.10 4.175E 3.795E 00 3.279E 05 3.930 1.719 3.202E 1.172E 0.1 1.012E 06 17.192 1.719	14.279	5.840E 01		1	7.970E 05 7.708E 06 3.230E 06
9.731E 00 8.408E 05 14.279 .700 5.409E 8.293E 00 7.165E 05 12.169 .900 4.808E 5.535E 00 4.702E 05 8.122 1.10 4.175E 3.755E 00 3.279E 05 5.578E 00 3.2746E 1.175E 0.1 1.012E 06 17.192 1.75 2.744E	14.279	5.409E 01			
8.293E 00 7.165E 05 12.169 .900 4.808E 5.535E 00 4.782E 05 8.122 1.10 4.175E 3.795E 00 3.279E 05 5.569 1.30 3.646E 2.678E 00 2.314E 05 3.930 1.50 3.202E 1.172E 01 1.012E 06 17.192 1.75 2.744E			· · · · · · · · · · · · · · · · · · ·		
5+535E 00 4-782E 05 8-122 1+10 3-795E 00 3-279E 05 5-569 1+30 2-678E 00 2-314E 05 3-930 1+50 1+172E 01 1+012E 06 17-192 1+75	69	***********			
3*795€ 00 3*279€ 05 5*569 1*30 2*678€ 00 2*314€ 05 3*930 1*50 1*172€ 01 1*012€ 06 17*192 1*75	8.122		3.607E 06 1.E4-1.E5		0.0
2.678E 0¢ 2.314E 05 3.930 1.50 1.172E 01 1.012E 0¢ 17.192 1.75	698	3.646E 01	3.150E 06 1.E5-1.E6		0.0
1+172E 01 1+012E 06 17+192 1+75		3.202E 01	2.766E 06 1.E6-1.E7		0*0
		2.744E 01	2.371E 06 . 1.E7-DVER		0.0
2.00 2.372E 01	2.0	2.372E 01	2.050E 06		
	100.001	2.069E 01"	1.797E 06TOTAL	E	1.178E 07
2+80 1+819E 01	2.6		1,572E 06		
2+75 1+612E 01	2.1		1+393E 06		
3.00 1.439E 01	D*R	1.439E	1,244E 06		-
3.50 1.172E 01	P)		1.012E 06 · · ·		

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AE4, AE5, AP1, AP6, AP7 *** PROCEDURE : UNIFLUX OF 1972 ** ** ELFCTRON FLUXES EXPONENTIALLY DECAYED TO 1972, O WITH LIFETI4ES: E.3.STASSINOPOULOSED.VERZARIU ** CUTOFF TIMES: ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: CAINSLANGEL 143-YERM POGO 10/68 * TIME= 1970.0 **
** VEHICLE : UK-5 0/450 ** INCLINATION= 00EG ** PERIGEE= 45.0KM ** B/L ORBIT TAPE: TD8161 ** PERIOD= 1.860 **
** PERIOD= 1.860 **
** PERIOD= 1.860 **

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_	AB LE	Ь	PEAK	AND	TOTAL	FUAR	SFEF	** TABLE OF PEAK AND TOTAL PLUKES FEF PERTOD - ENFOGY >.500 MEV **	1	ENEGGY	V . 500	MEV	*
3	1	1	4444	444	****	1	11111		1	4444	44444	*	1

COUNTERED LCNGITUDE LATITUDE ALITITUDE (HOURS) (GAUSS) ENTE 00 -31.884 -0.00 443.13 0.31667 0.22836 ENTE 00 -33.341 -0.00 43.99 0.22867 175E 00 -33.341 -0.00 43.99 0.22897 175E 00 -33.341 -0.00 43.97 6.68667 0.22897 175E 00 -31.673 -0.00 43.97 8.6867 0.22897 175E 00 -31.673 -0.00 44.99 10.30000 0.22897 175E 00 -31.673 -0.00 44.99 10.20000 0.22897 175E 00 -31.672 0.00 44.99 10.20000 0.22897 175E 00 -31.572 0.00 44.99 0.22899 175E 00 -32.99 0.00 0.22899 175E 00 -32.99 0.00 0.00 44.99 0.22999 175E 00 -32.99 0.00 0.00 44.99 0.00 0.22999	PER 100	PEAK FLUX	PCSITION A	PCSITION AT WHICH ENCOUNTERED	COUNT ERED	ORBIT TIME	F 15LD(B)	LINE(L)	TCTAL FLUX
3.617E 0.00 31.684 -0.00 443.13 0.31667 0.22836 3.402F 0.0 -31.884 -0.00 443.13 0.31667 0.22836 3.402F 0.0 -31.884 -0.00 43.43 0.31667 0.22846 2.402F 0.0 -32.37 -0.00 43.43 0.22846 0.22846 2.808F 0.0 -31.812 -0.00 43.23 5.20000 0.22847 2.888E 0.0 -31.812 -0.00 43.23 0.22846 0.22847 3.858E 0.0 -30.315 -0.00 443.57 10.2000 0.22843 4.326E 0.0 -31.813 -0.00 443.57 10.2000 0.22843 4.326E 0.0 -31.813 -0.00 443.57 10.2000 0.22843 4.326E 0.0 -31.87 -0.00 443.57 10.2000 0.22848 4.326E 0.0 -31.87 -0.00 443.57 11.60667 0.22848	NOMBER	ENCOUNTERED	LONGITUDE	LATITUDE	ALT (TJDE				PER ORBIT
3.617E 00 -31.884 -0.00 443.13 0.31667 0.22836 3.402E 00 -33.341 -0.00 431.91 1.98333 0.22865 3.5136 0.22865 0.22865 0.00 -33.341 -0.00 433.3 5.5000 0.22865 0.22865 0.00 -33.341 -0.00 433.73 5.5000 0.22865 0.22865 0.00 -31.612 -0.00 433.73 6.96667 0.22865 0.22865 0.00 -31.612 -0.00 433.37 6.96667 0.22865 0.22865 0.00 -30.315 -0.00 433.35 11.96667 0.22865 0.22865 0.00 -30.315 -0.00 443.50 11.96667 0.22865 0.22865 0.00 -30.315 -0.00 443.50 11.96667 0.22865 0.22865 0.22865 0.00 -31.239 -0.00 444.02 11.96667 0.22843 0.22843 4.326E 00 -31.239 -0.00 444.02 11.96667 0.22843 0.22843 4.326E 00 -31.239 -0.00 444.02 11.96667 0.22843 0.22843 1.9086 0.00 -34.249 0.00 444.02 11.96867 0.22843 0.22843 1.9086 0.00 -34.249 0.00 444.02 11.96867 0.22843 0.22843 1.9086 0.00 -34.249 0.00 444.02 11.96867 0.22843 0.22843 1.9086 0.00 -34.249 0.22843 1.9086 0.00 -34.249 0.00 444.02 11.9086 0.0082843 0.22843 1.9086 0.00844		#/CM##2/SEC	(DEG)	(DE C)	Ç.	(HOUPS)	(GA US S)	(E.R.)	#/CH##2/0RBIT
3.402F 00 -31.193 -0.00 434.91 1.98333 0.22866 2.979E 00 -33.872 -0.00 433.75 5.5000 0.22895 2.979E 00 -32.879 -0.00 433.75 6.9667 0.22895 2.886F 00 -33.879 -0.00 433.75 6.9667 0.22895 3.286F 00 -33.872 -0.00 443.97 8.6967 0.22895 3.286F 00 -33.873 -0.00 443.57 11.9667 0.22895 4.306F 00 -32.879 -0.00 443.57 11.9667 0.22895 4.306F 00 -32.879 -0.00 443.57 11.9667 0.22895 4.306F 00 -32.879 -0.00 443.57 11.9667 0.22895 4.409E 00 -32.879 -0.00 443.57 18.6164 0.22895 4.409E 00 -33.882 0.00 443.75 21.9330 0.22895 4.409E 00 -33.882 0.00 443.75 21.9330 0.22895 3.756F 00 -33.892 0.00 443.75 21.9330 0.22895 3.756F 00 -32.271 0.00 443.75 21.9330 0.22895 3.706F 00 -32.872 0.00 443.75 21.9330 0.22895 3.706F 00 -32.872 0.00 443.75 21.9330 0.22895 3.706F 00 -32.893 0.00 443.03 25.26665 0.22995 2.706F 00 -32.893 0.00 443.75 21.9330 0.22995 3.707E 00 -32.893 0.00 443.69 31.81664 0.22895 3.707E 00 -32.893 0.00 443.83 33.58999 0.22895 3.707E 00 -32.893 0.00 443.89 31.81664 0.22895 3.807E 00 -32.893 0.00 443.89 443.89 443.89699 0.228771 4.207E 00 -33.895 0.00 443.89 443.89699 0.228771 4.207E 00 -33.895 0.00 443.89 443.8967 0.22775 4.20779 0.00 443.89 443.89 443.8067 0.22775	-		-31 -884	9.63	44 3.13	0.31667	0.22836	1.12	1.128E 03
3.178E 00 -30.472 -0.00 434.95 3.65000 0.22895 2.888E 00 -31.812 -0.00 431.97 8.63333 0.22987 2.888E 00 -31.812 -0.00 431.97 8.63333 0.22987 3.558E 00 -31.812 -0.00 441.02 11.96667 0.22987 3.558E 00 -32.528 -0.00 444.02 15.2833 0.22843 4.326E 00 -32.528 -0.00 444.02 15.2833 0.22843 4.488E 00 -32.528 -0.00 444.02 15.2833 0.22843 4.488E 00 -32.528 0.00 444.03 15.6566 0.22843 4.488E 00 -32.527 0.00 444.01 20.28658 5.103E 00 -32.527 0.00 444.03 25.5969 5.2885 00 -32.277 0.00 444.03 25.5969 5.2885 00 -32.277 0.00 444.03 25.5969 5.2978E 00 -32.377 0.00 444.03 35.25000 0.22944 5.2078E 00 -32.377 0.00 444.03 35.25000 0.22945 5.308E 00 -32.377 0.00 444.03 35.25000 0.22945 5.308E 00 -33.595 0.00 444.09 30.22900 5.2978E 00 -32.277 0.00 444.19 44.89999 0.228773 4.251E 00 -33.595 0.00 444.19 44.89999 0.228751 5.2078E 00 -33.595 0.00 444.19 44.89999 0.22752	~	0	-31 -193	6.0	431.91	1.98333	0.22866	1.11	1.022E 03
2.979E 00 -33.341 -0.00 433.33 5.30000 0.22987 2.888E 00 -32.579 -0.00 433.76 6.96667 0.22982 2.888E 00 -31.053 -0.00 433.76 6.96667 0.22982 3.249E 00 -31.053 -0.00 443.57 11.9667 0.22982 4.026E 00 -30.315 -0.00 443.50 11.9667 0.22882 4.026E 00 -31.252 -0.00 443.50 13.65333 0.22882 4.326E 00 -31.239 -0.00 444.53 16.9500 0.22835 4.446E 00 -31.239 -0.00 444.57 18.6164 0.22794 4.446E 00 -31.239 -0.00 444.57 18.6164 0.22794 4.446E 00 -32.939 0.00 443.75 21.9330 0.22835 4.466E 00 -32.939 0.00 443.75 21.9330 0.22835 4.466E 00 -32.939 0.00 443.75 21.9330 0.22885 3.356E 00 -32.939 0.00 443.75 21.9331 0.22885 2.976E 00 -30.090 -0.00 443.75 21.9331 0.22885 3.267E 00 -30.090 -0.00 443.69 30.2666 0.22995 2.976E 00 -30.090 -0.00 443.93 23.59999 0.22995 2.976E 00 -30.090 -0.00 443.93 33.52500 0.22995 3.267E 00 -30.090 -0.00 444.98 33.52500 0.22995 3.267E 00 -30.090 -0.00 444.98 33.52500 0.22996 3.267E 00 -30.691 -0.00 444.98 34.6667 0.22996 3.267E 00 -30.691 -0.00 444.88 38.6667 0.22996 3.267E 00 -30.640 -0.00 444.88 38.6667 0.22996 3.267E 00 -30.640 0.00 444.88 4 43.6667 0.22996 3.277E 00 -30.640 0.00 444.88 4 43.6667 0.22976 3.277E 00 -30.640 0.00 444.88 4 43.6667 0.22978 3.277E 00 -30.640 0.00 444.88	m		-30.472	0.0	434.95	3.65000	0.22895	11.1	9.556E 02
2.880E 00 -32.579 -0.00 43).76 6.96667 0.22962 2.848E 00 -31.612 -0.00 433.97 8.6657 0.22961 3.249E 00 -31.612 -0.00 433.95 11.96667 0.22961 3.249E 00 -30.315 -0.00 443.67 11.96667 0.22975 3.249E 00 -30.315 -0.00 443.62 15.2833 0.22843 4.324E 00 -31.629 -0.00 443.62 15.2833 0.22843 4.324E 00 -31.629 -0.00 443.62 15.2833 0.22843 4.304E 00 -31.629 -0.00 443.62 15.2833 0.22843 4.304E 00 -31.629 -0.00 443.61 12.02833 0.22843 4.304E 00 -32.634 0.00 443.61 12.02833 0.22843 4.408E 00 -32.634 0.00 443.61 12.02833 0.22843 4.408E 00 -32.634 0.00 443.61 12.02833 0.22848 13.754E 00 -32.939 0.00 443.731 20.2865 0.22848 13.754E 00 -32.939 0.00 443.64 13.854E 00 -32.939 0.00 443.84 13.854E 00 -32.2331 0.22873 0.22872 0.22873 0.22873 0.22873 0.22873 0.22873 0.22873 0.22873 0.2287	4		-33,341	.o.	432,33	5.30000	0.22987	1.12	
2.848E 00	vi		-32,579	-0-03	433,76	6.96667	0 +22982	1.12	8.172E 02
3.085E 00 -31.053 -0.07 432.95 10.30000 0.22925 3.249E 00 -30.315 -0.07 433.36 11.96667 0.22879 4.326E 00 -22.528 -0.00 443.57 15.2833 0.22843 4.326E 00 -31.239 -0.00 443.57 18.61664 0.22791 4.306E 00 -31.239 -0.00 443.57 18.61664 0.22791 4.408E 00 -32.271 0.00 443.75 110.21664 0.22743 4.409E 00 -32.271 0.00 443.75 21.9330 0.22835 4.103E 00 -32.271 0.00 443.75 21.9330 0.22835 3.384E 00 -32.271 0.00 443.75 21.9330 0.22835 3.384E 00 -32.271 0.00 443.75 21.9330 0.22835 2.976E 00 -32.939 0.00 433.81 26.93330 0.22835 2.976E 00 -32.943 0.00 433.81 26.93331 0.22932 2.976E 00 -32.943 -0.00 433.81 33.58331 0.22932 2.976E 00 -32.943 -0.00 433.84 31.5164 0.22945 3.267E 00 -32.943 -0.00 443.84 31.51640 0.22945 3.991E 00 -32.271 -0.00 443.84 33.5667 0.22976 4.251E 00 -32.271 -0.00 443.84 41.89999 0.22773 4.251E 00 -32.271 -0.00 443.84 41.89999 0.22773 4.251E 00 -31.640 -0.00 443.84 41.89999 0.22773	•	٥	-31.612	9 •	4 33 . 97	8+63333	0.22961	1.11	8.066E 02
3.249E 00 -30.315 -0.00 440.50 11.96667 0.228T9 3.558E 00 -29.605 -0.00 440.50 13.6333 0.228T9 4.326E 00 -32.528 -0.00 447.43 15.28333 0.22843 4.326E 00 -31.239 -0.00 447.51 18.61644 0.22761 4.304E 00 -34.210 0.00 447.51 18.61664 0.22743 4.408E 00 -33.582 0.00 443.75 118.61664 0.22743 4.409E 00 -32.271 0.00 443.75 21.63599 0.228T3 3.754E 00 -32.271 0.00 443.03 25.26666 0.228T5 3.394E 00 -32.271 0.00 443.03 25.26666 0.228T5 2.976E 00 -32.973 0.00 443.05 26.9999 0.228T5 2.976E 00 -32.973 0.00 443.05 26.9999 0.228T5 2.976E 00 -32.973 0.00 443.05 0.22595 2.976E 00 -32.973 0.00 443.50 0.22595 3.074E 00 -32.973 -0.00 443.50 0.22506 2.976E 00 -32.973 0.00 443.60 0.228T3 3.267E 00 -32.973 0.00 443.60 0.22973 4.539E 00 -32.271 -0.00 443.60 0.22762 4.539E 00 -32.271 -0.00 443.60 0.22762 4.539E 00 -32.271 0.00 443.60 0.22762	^	0	-31.053	6.6	432.95	10 + 30000	0.22925	1.11	8.546E 02
3.558E 00 -29.605 -0.00 441.5) 13.6333 0.22828 4.020E 00 -32.528 -0.00 444.02 15.2833 0.22843 4.326E 00 -31.873 -0.00 444.57 16.61664 0.22791 4.446E 00 -30.614 0.00 444.57 18.61664 0.22791 4.446E 00 -30.614 0.00 444.57 18.61664 0.22793 4.466E 00 -32.939 0.00 444.57 21.9330 0.22835 4.409E 00 -32.939 0.00 444.57 21.9330 0.22835 3.754E 00 -32.939 0.00 444.63 22.6666 0.22857 3.193E 00 -32.939 0.00 444.63 22.6666 0.22857 3.193E 00 -30.690 -0.00 444.63 22.6666 0.22857 2.976E 00 -30.690 -0.00 431.50 30.26666 0.22993 2.976E 00 -32.943 -0.00 431.50 30.26666 0.22993 2.976E 00 -32.943 -0.00 431.30 30.26666 0.22993 3.267E 00 -32.943 -0.00 431.31 33.56999 0.22994 3.267E 00 -32.943 -0.00 444.63 33.69164 0.22994 3.267E 00 -32.973 -0.00 444.69 36.667 0.22994 4.251E 00 -32.271 -0.00 444.69 49.6999 0.22773 4.555E 00 -32.271 -0.00 444.69 49.6909 0.22773	æ	0	-30,315	-0.63	435,36	11.96667	0.22879	111	9.861E 02
4.020E 00 444.02 15.2833 0.22843 4.326E 01 -31.873 -0.00 447.43 16.9500 0.22791 4.304E 00 -31.873 -0.00 447.43 16.9500 0.22791 4.408E 00 -30.614 0.00 443.75 20.2666 0.22743 4.408E 00 -32.939 0.00 443.75 21.9330 0.22835 4.408E 00 -32.939 0.00 443.75 21.9330 0.22835 3.754E 00 -32.939 0.00 443.75 21.9330 0.22835 3.754E 00 -32.939 0.00 443.73 22.26656 0.22835 3.193E 00 00 443.73 22.26656 0.22835 3.194E 00 -32.943 -0.00 434.05 28.5666 0.22937 2.976E 00 -32.943 -0.00 431.84 0.2294 0.2294 2.976E 00 -32.943 -0.00 431.84 0.2294 0.2294 2.976E 00	•	0	-29.605	90.0	443.50	13,63333	0.22828	1.11	1.108E 03
4.326E 00 -31.873 -0.00 447.43 16.95000 0.22791 4.304E 00 -34.210 0.00 449.57 18.61664 0.22783 4.408E 00 -30.614 0.00 449.91 20.26666 0.22743 4.409E 00 -32.939 0.00 443.75 21.9330 0.22835 4.409E 00 -32.939 0.00 442.03 22.26666 0.22835 3.756E 00 -32.271 0.00 442.03 25.26666 0.22885 3.756E 00 -32.271 0.00 442.03 25.26666 0.22935 3.70E 00 -32.271 0.00 442.03 25.26666 0.22935 2.77E 00 -30.693 -0.00 431.50 22.26666 0.22937 2.77E 00 -30.693 -0.00 431.50 22.56666 0.22947 2.77E 00 -32.973 -32.9666 0.2294 0.2294 2.77E 00 -32.973 -32.9666 0.2294 3.507E 00	10		-32,528	8.0	444.02	15.28333	0.22843	1.12	-
4.304£ 0.22766 443.57 18.61664 0.22766 4.448£ 0.00 443.75 18.61664 0.22835 4.468E 0.00 443.75 20.26666 0.22835 4.408E 0.00 443.75 21.26466 0.22835 4.103E 0.00 443.75 21.59330 0.22835 3.754E 0.00 442.03 22.2666 0.22835 3.364E 0.00 442.03 22.2666 0.22835 3.364E 0.00 437.31 26.6999 0.22885 3.364E 0.00 437.31 26.5999 0.22885 2.970E 0.00 437.31 26.2666 0.22885 2.970E 0.00 431.54 30.2666 0.22937 2.970E 0.00 431.54 30.2666 0.22937 2.978E 0.00 431.54 30.2666 0.22937 2.978E 0.00 431.54 30.2666 0.2294 3.074E 0.00 431.54 30.2164 0.2294 3.501E 0.00 431.54 40.20	Ξ		-31 +873	-0.00	447.43	16.95000	0.22791	1.12	1.354E 03
4.448E 00 -34.210 0.00 449.93 20.26666 0.22835 4.468E 00 -30.614 0.00 443.75 21.62831 0.22743 4.409E 00 -32.939 0.00 442.93 23.5999 0.22835 4.103E 00 -32.939 0.00 442.93 23.5999 0.22835 3.304E 00 -32.939 0.00 442.93 25.26666 0.22835 3.103E 00 -30.604 0.00 431.50 26.5999 0.22885 2.970E 00 -30.609 -0.00 431.50 30.26666 0.22993 2.970E 00 -32.943 -0.00 431.54 33.58331 0.22994 3.267E 00 -32.943 -0.00 431.54 33.58331 0.22994 3.267E 00 -33.895 -0.00 443.98 38.5667 0.22994 3.606E 00 -32.271 -0.00 443.99 36.5667 0.22994 4.251E 00 -32.271 -0.00 443.99 0.22762 4.539E 00 -31.640 -0.00 444.19 41.89999 0.22762 4.539E 00 -31.640 -0.00 444.19 0.22763	12	. 304E	-31 +239	-0-03	443.57	18.61664	0.22756	1+12	1.419E 03
4.468E 00 -30.614 0.00 443.75 21.93330 0.22743 4.409E 00 -32.939 0.00 443.75 21.93330 0.22835 4.103E 00 -32.939 0.00 443.73 22.26656 0.22835 3.103E 00 -31.572 0.00 437.31 26.26666 0.22885 3.103E 00 -30.604 -0.00 431.50 20.26666 0.22910 2.970E 00 -30.609 -0.00 431.50 30.26666 0.22942 2.970E 00 -32.943 -0.00 431.50 30.26666 0.22943 2.970E 00 -32.943 -0.00 431.31 33.58031 0.22943 2.970E 00 -31.422 -0.00 431.31 33.58031 0.22943 3.60E 00 -32.943 -0.00 431.41 36.56667 0.22944 3.60E 00 -32.971 -0.00 444.99 36.25900 0.22944 3.50E 00 -32.271 -0.00 444.19 41.89999 0.22773 4.521E 00 -32.271 -0.00 444.19 41.89999 0.22762	13		-34+210	8.0	443.33	20.26666	0.22835	1.12	6.889E 02
4.409E 00 -33.582 0.00 443.75 21.93330 0.22835 4.103E 00 -32.939 0.00 443.93 23.59999 0.22835 3.754E 00 -32.939 0.00 442.03 25.26666 0.22857 3.1934E 00 -30.693 0.00 437.31 26.9330 0.22857 2.970E 00 -30.690 -0.00 431.50 20.26659 0.22993 2.970E 00 -32.943 -0.00 431.50 30.26666 0.22993 2.970E 00 -32.943 -0.00 431.50 30.26666 0.22993 3.267E 00 -32.943 -0.00 431.33 33.58331 0.22944 3.267E 00 -32.943 -0.00 443.41 36.9164 0.22924 3.901E 00 -32.271 -0.00 443.64 40.2500 0.22773 4.251E 00 -32.271 -0.00 443.64 43.86667 0.22772 4.539E 00 -31.640 -0.00 444.19 41.89999 0.22772	14		-30.614	0.0	16.644	20+28331	0.22743	1 • 12	6.826F 02
4.103E 00 -32.939 0.00 442.03 23.59999 0.22835 3.754E 00 -31.571 0.00 442.03 25.26666 0.22857 3.1936E 00 -31.572 0.00 437.31 26.9330 0.22885 2.976E 00 -30.090 -0.00 431.50 26.5999 0.22910 2.976E 00 -32.943 -0.00 431.50 26.2666 0.22927 2.976E 00 -32.943 -0.00 431.51 30.2666 0.22997 3.267E 00 -32.943 -0.00 431.31 33.58331 0.22965 3.606E 00 -32.973 -0.00 443.75 35.5800 0.22967 3.901E 00 -29.318 -0.00 443.41 38.5667 0.22906 4.251E 00 -32.271 -0.00 443.69 40.28000 0.22773 4.539E 00 -31.640 -0.00 443.84 43.5667 0.22762	15		-33,582	0.0	443.75	21 +9 3330	0.22926	1.12	1.302E 03
3.754E 00	16		-32,939	0.0	443.93	23.59999	0.22835	1.12	
3.384E 00	17		- 32 - 271	8.	4+2.03	25+26666	0.22857	1.12	
2.970E 00			-31 -572	6.0	437.31	26.93330	0.22885	1.12	1.000E 03
2.970£ 00 -30.090 -0.00 431.50 30.26666 0.2293271E 00 -32.943 -0.00 431.54 31.5164 0.22993 2.771E 00 -32.943 -0.00 431.33 33.56331 0.22993 3.267E 00 -32.973 -0.00 431.33 33.56331 0.22945 3.267E 00 -33.9991 -0.00 443.93 36.25000 0.22945 3.901E 00 -32.271 -0.00 443.93 38.5667 0.22973 4.251E 00 -32.271 -0.00 443.84 43.56999 0.22773 4.539E 00 -31.640 -0.00 443.84 43.5667 0.22773 4.565E 00 -31.640 -0.00 443.84 43.5667 0.22762 4.551E 00 -31.640 -0.00 443.84 43.5667 0.227762 4.551E 00 -31.640 -0.00 443.84 43.56667 0.227762 4.551E 00 -31.640 -0.00 443.84 43.560 -0.00 443.84 43.5667 0.227762 4.551E 00 -31.640 -0.00 443.84 43.560	5		-30.843	8.0	434.05	59.55999	0.22910	1.11	9.190E 02
2.771E 00 -32.943 -0.00 431.64 31.51664 0.22993 2.978E 00 -32.177 -0.00 431.33 33.58331 0.22965 3.074E 00 -32.177 -0.00 431.33 33.58331 0.22965 3.074E 00 -31.422 -0.00 431.74 35.25000 0.22924 3.267E 00 -33.595 -0.00 441.93 38.5667 0.22973 4.251E 00 -32.271 -0.00 443.84 43.599 0.22773 4.251E 00 -32.271 -0.00 443.84 43.599 0.22775 4.551E 00 -31.640 -0.00 443.84 43.5657 0.22775 4.551E 00 -31.640 -0.00 443.84 43.5657 0.22775 0.22773	20		-30.090	S 9	431,50	30+26666	0+22927	1.11	_
2.978E 00 -32.177 -0.00 431.33 33.58331 0.22965 3.074E 00 -31.422 -0.00 433.75 35.2800 0.22965 3.074E 00 -31.422 -0.00 433.75 35.2800 0.22924 3.606E 00 -33.895 -0.00 443.93 38.5667 0.22905 4.251E 00 -32.271 -0.00 443.19 41.89999 0.22772 4.539E 00 -31.640 -0.00 443.84 43.5667 0.22762 4.65F 00 -31.015 0.00 443.80 0.22751	21		- 32 .943	8	433.64	31.51664	0.22993	1.12	
3.074E 00 -31.422 -0.00 433.75 35.25000 0.22924 3.267E 00 -30.691 -0.00 437.41 36.91664 0.22873 3.606E 00 -33.595 -0.00 443.93 38.5667 0.22906 3.901E 00 -29.318 -0.00 443.19 41.89999 0.22773 4.251E 00 -32.271 -0.00 443.19 41.89999 0.22773 4.465E 00 -31.640 -0.00 443.84 43.86667 0.22762 4.465E 00 -31.015 0.00 443.80 0.22751	22		-32.177	-0-03	431.33	33,58331	0.22965	1.12	
3,267E 00 =30,691 =0.00 437,41 36,91664 0.22873 3,606E 00 =33,595 =0.0) 441,93 38,5667 0.22906 3,991E 00 =29,318 =0.00 443,19 41,89999 0.22773 4,539E 00 =31,640 =0.00 443,19 41,89999 0.22762 4,65E 00 =31,640 =0.00 443,19 41,89999 0.22762	23	0	-31 .422	60.0	433.75	35.25000	0.22924	111.1	8.737E 02
3.901E 00 -33.595 -0.0) 441.93 38.56667 0.22906 3.901E 00 -29.318 -0.00 443.59 40.25000 0.22773 4.251E 00 -32.271 -0.00 443.19 41.89999 0.22773 4.539E 00 -31.640 -0.00 443.84 43.56667 0.22762 4.65E 00 -31.015 0.00 443.84 0.22751	24	0	-30.691	93.0-	437.41	36.91664	0.22873	11.1	1+023E 03
3.901E 00 -29.318 -0.00 445.59 40.25000 0.22773 4.251E 00 -32.271 -0.00 444.19 41.89999 0.22793 4.539E 00 -31.640 -0.00 443.84 43.86667 0.22762 4.655 00 -31.015 0.00 443.84 63.85667 0.22751	25	٥	-33,595	٠ 9	443.93	38.56667	0.22906	1.12	1.130E 03
4.251E 00 -32.271 -0.00 444:19 41.89999 0.22793 4.539E 00 -31.640 -0.00 444:84 43.56667 0.22762 4.465E 00 -31.015 0.00 444:63 45.23331 0.22751 4.465E 00 -21.015 0.00 444:63 45.23331 0.22751	56	0	-29.318	9.0	445.59	40.25000	0.22773	1111	
4.539E 00 -31.640 -0.00 443.84 43.56667 0.22762 4.465E 00 -31.015 0.03 443.63 45.23331 0.22751	27	0	-32.271	6.9	444.19	41.89999	0+22793	1.12	1.361E 03
4.465F 00 -31.015 0.03 443.63 45.23331 0.22751	28	0	-31.640	8	443.84	43.56667	0.22762	1,12	1.416E 03
2 010E A	53	0	-31 .015	÷.	449.63	45.23331	0.22751	1+12	8.791E 02
3+B125 00 -11-50 0+100 +10-5000	30	0	-27.419	00 • 00	443.50	45.25000	0.22732	1.11	4,714E 02

** MAGNETIC COORDINATES B AND L COMPUTED BY INVADA OF 1972 WITH ALLMAS, MODEL 3: CAINGL ANGEL 147-TFOM DOOD 10/64 * TIMES 1070.0 ** ** VEHICLE : UK-5 0/550 ** INCLINATIONS ODEG ** PERICÉE 550KM ** VEHICLE : UK-5 0/550 ** INCLINATIONS ODEG ** PERICÉE

FLECTRONS

PERTOD	PEAK FLUX	POSITION AT	AT WHICH ENCOUNTERED	COUNTERED	SMIT TIBEC	FICED(R)	1 INFCL)	TOTAL FLUX
NUMBER	ENCOUNTEPED		LATITURE	ALTITUSE				PFP PPRIT
	#/CM## 3/SEC	(976)	(980)	(KM)	(HOURS)	(GAUSS)	(E.D.)	#/CM##3/#BIL
-	3.226F 01	-36.985	-0.00	544.06	0-30000	0.22021	1.15	1.201 04
ณ	Z.929F 01	-34.082	-0.00	539.46	2.01567	0.21937	1.10	1.154F 04
F	2.85eF 01	-34 +671	00*0-	535.62	34.71.667	90010.0	1 . 1 4	** 0 90 E 0 *
4	2.613F 01	-35,236	-0.00	532.64	5.4!567	0.22049	1.10	1.0175 04
G	2.489E 01	-35.784	-0.00	531.07	7.11566	PP055.0	1+14	9.R50E 03
¢	2.478E 01	-36-326	00.0-	531 . 17	8.81557	0.22113	1.14	1.001
^	2.574F 01	-33,345	-0.00	533.35	10,53333	0.21971	1.14	\$+05°F 04
Œ	2.9730 01	-33.915	-0.00	536.63	12,2333	0.21058	1.14	1.1546 00
6	3.162F 01	-34.512	-0.30	540.50	13, 93333	0.21042	1.14	1.25PF 04
01	3.427E 01	-35-137	-0.00	544,53	15.4333	0.21920	1.14	AC MORE .
1.1	3.586F 01	-35.788	-0.00	547.73	17,31131	0.21926	1.14	FASSE OA
12	3.650F 01	-34.456	-0.00	540.63	165.0 *61	0.21040	1.19	1.757F 04
m	2.422F 01	-40.646	00.0	549.07	30. 71665	0+22198	1.16	5.500F 03
4.		-37,133	00.0	06.645	20. 7331	0.010.0	1.15	1.074F.04
15	3.5390 01	-34,291	00.0	548.11	22.45000	0.21841	1.14	\$ 44 F 94
16	3.401F 01	-34+945	00.00	545.07	34.14999	0.21916	1.14	1.3235 04
17	3.010F 01	-32.051	00.0	540.58	25.85554	0.21844	1.13	1.214F 34
1.0	2.839E 01	-32,647	00*0	536.62	27,55467	0.21918	1.13	1.110F 04
19	2.649F 01	-33.21A	00.0	533,34	29.2555	0.21057	1.14	1.03PF 0A
50	2.491E 01	-33+770	-0.00	5.31.34	30. 94666	0.22005	1 . 1 4	9.871F 03
12	2.4605 01	-34,713	00.0-	530.47	32.66564	0.22028	1.14	CO 3098.0
22	2.573f 01	-34 - 859	-0.00	532,31	34,35554	0.22036	1.10	1.0345 04
E &	2.797E 01	-35.421	00.0-	535.10	16. 96567	25062+0	1 + 1 4	1.1107 04
\$	2.953F 01	-36,005	00*0+	F38.36	37, 76465	0.22022		1.200F 04
25	3.249F 01	-33.098	00.0-	543.49	39,48331	0.21845	4	40 HATE.
50	3,5800 01	-33,742	00.0-	546.94	41 - 12330	0+21.852	1.14	1.44ግልም በል
7.2	3.653F 01.	-34.407	-0.00	549.27	42.84332	0.21854	1 + 1 4	1.4005 04
2.9	3.592F 01	-35.083	00.0	550.00	44.58331	0.2:874	1.14	1.202F 04
54	2.011F 01	-21.030	00.0	540+59	44.64963	0.21850	F.1.3	T.102F 03

1.445F 04

1.14

0.21913

46, 28331

549.02

00.00

-35,758

3.616E 01

TOAGE OF THE PLUX STUDY WITH COMPOSITE PARTICLE FAVIENCE SERVERSE

**** ## TABLE OF PRAK AND TOTAL FLUXES POR PIRIOD - ENFRGY >-500 MBV ** ELECTRONS ****

PER TOO	PSAK FLUX	PCSITION A	PCSITION AT WHICH ENCOUNTERED LONGITHDE LATITUDE ALITTUDE	COUNT BRED ALTITUDE	ORBIT TIME	FIELD(A)	L 1NE (L)	TOTAL FLUX
	#/CM##2/S5C	(DEG)		(K.H.)	(FOUPS)	(GAUSS)	(E.P.)	#/CH**2/DRBIT
1	2+7C4F 02	134.990	00.0-	643.90	0.31667	0.20991	1.16	1.167E 05
~	2.446E 02	-36,939	00.0	638.99	2.05000	0.21115	1.16	1.072E 05
m	. 272F	- 35.415	00.0-	635.75	3,80000	0.21082	1.16	9.814% 04
đ	2.166E 02	-37,313	00.0-	632.92	5,53333	0.21199	1.16	9.284E 04
\$F	2.066E 02	-35.743	00.0-	631.27	7+28333	0.21138	1.16	9.053E 04
ø	C77E	-37.620	00.0-	631.52	5,01667	0.21228	1.16	9.350E 04
~	2.132E C2	-32.604	00.0-	634.12	10.78333	0,20597	1.15	9.824E 04
90	2.248E 02	-34.511	00.0-	637.40	12.51667	0.21030	1.16	1.0438 05
ď	2.533E 02	-36.443	00*6-	641.22	14.25000	6.21079	1.16	1.154E 05
10	721E	-34.962	00*0	645.45	16.00000	0.20975	1.16	1.2518 05
11	2.521E 02	-36.945	00.0-	648.27	17,73331	0.21040	1.16	1.326E 05
12	2.572E 02	-35.510	00.0-	649.91	19.48331	0.20957	1.16	1.0638 05
13	1.481# 02	-21.778	00.0	649.94	15.54999	0.20859	1.14	3.884E 04
4	3.103E 02	-37,513	00.0	649.66	21,21666	0.21057	1.17	1.218E 05
15	BBOE	-36.074	00.0	64.7.49	22.96666	0.21005	1.16	
16	2,716E 02	-38.051	00.0	644.35	24,70000	0.21134	1.17	1.1555 05
17	4415	- 36,561	00.0	639.98	26.45000	0.21096	1.16	1.082E 05
18	2.234E 02	-35.037	00.0	635.73	2e,20000	0.2106.7	1.16	9.825E 04
61	2.175E 02	- 36 - 934	00.0	632.91	25,93330	0.21180	1.16	9.365E 04
20	2. C46F 02	-35.364	00.0-	631.26	31,68330	0.21121	1.16	
	2.CESE 02	-37.242	-0.00	631,52	32.41664	0.21208	1.16	9.2672 04
22	2.107E 02	-35.676	00.00	633.70	35.16664	0.21112	1.16	9.7245 04
23	2.322 02	-34.133	00.0-	637.42	36,91664	0.21016	1.16	
	2. 522E. 02	-36+065	00.0-	641.23	36.64999	0.21061	1.16	1.151€ 05
25	2.747E 02	-38,022	-0.00	644.94	40.38332	0.21127	1.17	
56	2.516E 02	-36,568	-0.00	648+28 _	. 42,13332	0.21021	1.16	1.330E 05
	3.023E 02	-38,566	00.0-	649.81	43,86664	0.21114	1.17	1.2175 05
28	2.664E 02	-40.569	00.0	649.80	45.59999	0.21240	1.17	6.273E 04
50	3.100E 02	-37.156	20.0	649.65	45.61664	0.21037	1.16	8,621E 04

*# ORBITAL FLUX STUDY WITH COMPOSITE DARTICLE ENVIRONMENTS : VETTES AE3, AP5, AP5, AP6, AP7 **** PECEDUME : UNIFLUX OF 1972 **

*# ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972, 0 WITH LIFETIASS: E.3.STASSINDPOULOSE? VERZAPIU ** CUTOFF TIMES;

** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLAAG, MODEL 3: CAINSLANGEL 143-TERM POGO 10/62 * TIME= 1970.0 **

** VEHICLE : UK-5 3/450 ** INCLINATION= 3DEG ** PERIGES= 45)

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THE TROILS OF PEAK AND TOTAL PLUKNS DER PERIOD - RUFRGY V. 500 MRV KKARBER BERBERRER

PER I DO NUMBER	PEAK FLUX ENCOUNTERED	PESITION AT WHICH ENCOUNTRAED LONGITUDE LATITABE	WHICH ENCLANT	COUNT SAED ALT IT JOS	3MI1 11860	FIELD(A)	LINE(L)	TCTAL FLUX PEP SPRIT
	#/CM*#2/SEC		(OE ()	(4)	(SALOH)	(64 US 5)	(F.P.)	#/C###2/09BIT
	0.0	-1 00.260	0.0	451.00	0.0	0.26491	1.09	0.0
N	0.0	-121,219	0 - 15	65.644	1+56667	0.26383	1.07	0.0
e	. 1 • 068E 00	-23.212	2 17	43 1.93	3.69333	0.23362	1.10	1.255F 02
4	1.646E 00	- 26 . 08 8	1.21	431,76	543333	0.23164	1.11	3.596E 02
u	2.791E 00	- 28 .972	0.07	433.74	6.98333	0.22941	1.11	7.543E 02
9	4.300E 00	-31 +654	-1 : 03	431.04	8.63333	0.22726	1.12	1.494F 03
^	6.526E 00	- 34 , 727	-2.07	433.64	10 +28333	0.22557	1,12	2.4485E 03
60	9.129E 00	-33 .974	-2 • B2	433,85	11.95000	0.22352	1,12	3.545F 03
Φ	1.074E 01	-36.841	-2 - 53	433.27	13.60000	0.22349	1.12	4.061F 03
01	1.032F 01	-36.126	-2 • 63	44 3.43	15.26667	0.22366	1.12	3.827E 03
11	7.732E 00	- 35 + 466	-1.72	445.03	16.93330	0.22511	1.12	2.728F 03
12		-34.857	-0 - 45	443.23	18.59999	0+22759	1.12	1.539F 03
13	2.474E 00	-34.269	0 • 50	443.93	20.26666	0.23059	1 . 1 2	3.228E 02
14	2.907E 00	-30.676	8:	66.644	20.28331	0.22985	1.12	4.237F 02
15	1,627E 00	- 26 .462	2 + 3t	4+1.01	21.96666	0.23226	1.11	2.674F 02
16	0.0	-76.183	1.21	443.91	23,39999	0.26598	1.18	0.0
17	0.0	-97.140] • 35	443.75	24.95666	0.26956	1.11	0 *0
18.	1.139E 00	-24.358	2 - 23	433,63	26.56666	0.23341	1.10	5.832F 01
19	1.693E 00	-27 -246	1.37	43 1,73	2E . 6.1664	0.23173	1.11	3.5315 02
20	2.611E 00	- 30 + L 37	0 - 24	431.55	30.25556	0.22278	1.11	7.6325 02
21	4.136E 00	- 33 +022	-0.62	433.80	31.91664	0.22785	1.12	
22	6.331E 00	-32 -276	-2.09	431.50	33.58331	0.22520	1+12	
23	8.215E 00	- 35 + 1 30	-2 - 75	431.43	35.23331	0.22413	1.12	3.26PE 03
54	1.010E 01	-37.981	-3.00	435.33	36.68332	0.22418	1.13	3.8066 03
20	9.510E 00	- 37 • 242	.2-7	44),35	36.54999	0.22415	1.13	3.602F 03
26	7.950E 00	- 36 - 556	-1 - 65	44 14 33	40.21656	0+22545	1.13	2.69SF 03
27	4.918E 00	- 35,928	-0 • 62	447.64	41.88332	0.22779	1,13	1.604F 03
28	2.993E 00	- 31 .740	0 • 63	441.67	43.56667	0.22977	1+12	7.975E 02
29	1.311E 00	+31 • 133	2.13	449.55	45.23331	0.23239	1.12	
30	1.663E 00	-27.536	2.24	44.3+33	45+25000	0.23196	1.11	1.629F 02

** TABLE OF PEAK AND TOTAL FLUXES PER PERICO - ENERGY >.500 MEV ** ELECTRONS

. ! ! : .

	PERIOD	PEAK FLUX	PCSITION A	POSITION AT WHICH ENCOUNTERED	COUNTERED	ORBIT TIME	F15L0(8)	LINECLI	TOTAL FLUX
	NUMBER	ENCOUNTERED	LONGITUDE	LATITUDE	AL TITUDE				PER GRBIT
		#/CM##2/SEC	(DEG)	(DEC)	(KM)	(HOURS)	(GAUSS)	(E.R.)	#/CM*#2/04B1T
	-	1.11E 01	-29.964	2.90	542+93	0.33333	0.22433	1 + 1 3	3.632E 73
	~	9.609E 00	-30.546	2.94	16*985	2.03333	0.22502	1,13	3.316E 03
	m	1.058E 01	-27.580	2.29	534.65	3.75000	C - 22327	1+13	4+011E 03
	4	1.520E 01	-28.151	1.23	532.95	5.45000	0.22138	1.13	5.890E 03
	ß	2.317E 01	-32,259	C+13	531,03	7+13333	0.21990	1.13	9+B15E 03
	ø	3.703E 01	-32.837	-1-17	531.42	3,83333	0.21726	1.13	1.5669E 04
	~	5.550E 01	-36.934	-2-11	533.03	10+51667	0.21634	1.14	2.617E 04
	8	7.232E 01	-37.490	-2.82	536.15	12+21667	0+21471	1.14	3.5306 04
	•	8.584E 01	-38.053	-2.59	540.03	13.91667	9.21422	1.14	3.9598 04
	2	0.089E 01	-38.649	-2,56	543,97	15.61667	0.21502	1+15	3.538E 04
	11	6.192E 01	-39+268	- 1.64	547.28	17.31657	C. 21714	1.15	2.555E C4
	12	4.043E 01	-36.484	-0.21	549.56	19+03331	0.21892	1.14	1.432E 04
	13	1.1595 01	-40.704	16*3	549.89	23+71666	0.22442	1.16	3.0536 73
	*	2.278E 01	-33+685	1.27	349.72	20.75060	3.22117	1.14	6,251E C3
	<u>s:</u>	1.490E 01	-30,850	2.44	547.70	22.46566	0.22305	1.13	5.0186 03
	16	1.0656 01	-27,955	2.98	543+98	24.13330	0.2239C	1.13	3.714E 03
	17	1.0586 01	-28.546	2.83	540.03	25.88332	0.22439	1.13	3.6056 03
	<u>e</u> 2	1.234E 01	-29.126	2.13	536.16	27+58331	0.22304	1.13	4.492E 03
	19	1.725E 01	-29.711	1+02	533.07	29,28331	0.22105	1+13	6.747E 03
	50	2.707£ 01	-33.825	01.0-	531.49	30.96666	3.21983	1.14	1.121E 04
	21	4.052E 01	-34.402	-1+38	531.14	32.66664	0.21725	1.14	1.834E 14
	22	5.567E 01	-34.958	-2.39	532,47	34 - 35664	0.21517	1.14	2.715E n4
	23	7.495E 01	-35+500	-2.94	535,23	36.06567	6+21395	1.14	3+5588 04
	24	8.025k 01	- 39 • 585	-2,95	538,31	37,75000	0.21509	1.15	3.712E 04
	52	7.222E 01	-40-173	-2.43	542+27	39-45000	0.2162h	1.15	3.206E 04
:	56	5+502E 01	-37,301	-1+27	546,38	41-16664	0.21712	1+15	2.222E 04
	27	3+484E 01	-34.487	6.22	549.11	42+89332	2+21959	1.14	1.302E 04
	28	2.066E 01	-31.681	1.65	549+81	66665.44	0.22128	1.14	6.009E A3
	53	1.008E 01	-21.144	2 11	549.47	44.64999	0.22181	1.12	
	30	1.3596 01	- 32 • 356	2.56	548.64	46.29999	0.22383	1.14	4.730E 03

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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIPONMENTS : VETTES AE4. AE5. AP1. AP5. AP6. AP7 *** PROCEDURE : UNIFLUX OF 1972 **

******* ELECTRONS ***

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD - ENERGY >-500 MEV **

TOTAL FLUX PER ORBIT	#/CM##2/0RBIT	3.710E 04	3.394E 04	4.041E 04	5.765E 04	9.389E 04	1.556E 05	2.381E 05	3.142E 05	3.330E 05	2.931E 05	2.057E 05	1.0286 05	2.169E 04	6.546E 04	4.450E 04	3.638E 04	3.800E 04	4.930E 04	7.654E 04	1.222E 05	1.943E 05	2.685E 05	3.200E 05	3.096E 05	2.391E 05	1.529E 05	8.328E 04	2.122E 04	4.094E 04
LINE(L)	(E.R.)	1.15	1.15	1.15	1.16	1.16	1.15	1.16	1.16	1.17	1,17	1.17	1.17	1.14	1.16	1.16	1-15	91.1	1.15	1.15	1.16	1.16	1.16	1.17	1.16	1.17	1.16	1.16	1.18	1.16
FIELD(B)	(GAUSS)	0.21510	0.21508	0.21488	0.21368	0.21182	0.20810	0.20644	0.20560	0.20589	0.20758	0.20896	0.21137	0.20997	0.21261	0.21457	0.21524	0.21586	0.21355	0.21193	0.20998	0.20819	0.20551	0.20680	0.20618	0.20854	0.20905	0.21158	0.21750	0.21385
ORBIT TIME	(HOURS)	0+33333	2.08333	3.81667	5.55000	7,28333	9+03333	10.76667	12.50000	14.23333	15.95667	17.71666	19.46666	19.54999	21.23331	22,98331	24.73331	26,46566	28.21666	29.95000	31.68330	33.41664	35,16664	36.88332	38.63332	40.36664	42+13332	43,88332	45.59999	45.63332
WHICH ENCOUNTERED LATITUDE	(KM)	643.29	638+86	635.31	632+64	631,33	631.77	633.77	636+92	640.67	644.39	647.87	649.73	649.87	649.42	647.06	643.26	639.46	635.34	632.71	631+42	631+68	633.85	636.42	99.049	644,34	648.14	649.76	649.67	649+36
T WHICH EN LATITUDE	(086)	2.88	2,93	2.40	1.43	0.20	-1.25	-2.27	-2.88	-2.96	-2+50	-1.43	-0.01	0.04	1,58	2.60	3.00	2.76	1.87	0.72	-0.56	-1.74	-2.69	-2.99	-2+75	-2.01	-0.53	0.93	1.89	2.17
LONGITUDE LATITUDE ALTITUDE	(DEG)	-31.572	-30+038	-31.935	-33,838	-35.749	-34,212	-36.111	-38+000	-39.898	-41.830	-40,377	-38,975	-21,633	-34,149	-32,709	-31,213	-33,130	-31,595	-33,513	-35.430	-37,334	-35,766	-41.096	-39,545	-41.490	-36.624	-35.227	-40.681	-33,814
PEAK FLUX Encountered	#/CM##2/SEC	9,742E 01	6.683E 01	9.497E 01	1+286E 02	1+971E 02	3.048E 02	4.502E 02	6.019E 02	6.562E 02	6.104E 02	4.674E 02	2.909E 02	1.116E 02	1.733E 92	1.138E 02	9.603E 01	9.486E 01	1.143E 02	1.68GE 02	2.416E 02	3.775E 02	5.176E 02	6.089E 02	6.166E 02	5.125E 02	3.559E 02	2.238E 02	8.277E 01	1.460E 02
DER TOO NUMBER		-	ø	r)	4	u)	٠	^	æ	٥	91	=	12	E T	1.4	15	16	17	1.0	61	80	21	22	23	24	25	56	27	28	53

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTËS AE1, AE5, AP1, AP5, AP6, AP7 *** PEGCEDURE : UNIFLUX OF 1972 **
** FLECTRON FLUXES EXPONENTIALLY DECAYED TO 1972, 0 WITH LIFETIAES: E.3.STASSINOPOULOSE? VERZARIU ** CUTOPF TIMES:
** MAGNETIC COOPDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLAAG, MODEL 3: CAINCLANGEL 143-TERM FOGG 10/68 * TIME# 1970.0 ** 450KM ## 9./L OR8IT TAPE: TO8161 ## PEHIOD= 1,560 ## ** VEHICLE: UK+5 0/450 ** INCLINATION* ODEG ** PEFIGEE= 453KM ** APOGÉE=

** TABLE OF PEAK AND TOTAL PLUKES PER PERIOD - EVERGY >5.00 MEV **

DEP 100	PEAK FLUX	PESITION A	PESITION AT WHICH ENCOUNTERED	COUNT ERED	ORBIT TIME	FIELD(B)	LINE(L)	TCTAL FLUX
NUMBER	ENCOUNTERED	L CNGI TUDE	LAT I TUDE	ALT IT JOE				PEP CRBIT
	#/CM##2/SEC	(DEG)	(DEC)	(¥ 1	(S&UOH)	(GAUSS)	(E.R.)	#/CM##2/0RBIT
-	3.326E 00	-35.487	6.0	44 3.74	0.30000	0+22951	1.12	1+370E 03
'n	0	-34.802	6.0	439.55	1.96667	0.22965	1.12	1.281E 03
m	2.967E CO	-34.085	03.0	435.51	3,63333	0.22980	1+12	1.159F 03
4	0	-33,341	-0+03	43 2 . 33	5.30000	0.22987	1.12	1.094E 03
ď	2.714E 0C	- 32 .579	-0-03	433.76	6.96667	0,22982	1.12	1.0916 03
ø	0	-31 +812	03 • 0- 0-	433.97	0.63333	0.22961	1.11	1.089F 03
^	2.692E 00	-34,669	8.0	45.24.93	10.28333	0.23033	1.12	1.118E 03
æ	923E 0	-33,926	6.6	435.77	11.95000	0.22971	1.12	1.231E 03
v	3.230E 00	-33,212	6.9	433.85	13.61667	0.22905	1.12	1+325E 03
01	3226	- 32 + 528	-0 - 03	444.02	15,28333	0.22843	1.12	1.404E 03
11	3.563E 00	-35.472	03 • 0-	447+02	16,9330	0.22917	1.12	1.537E 03
12	3.779E 00	-34,836	-0-0	443.36	18.59999	0.22866	1.12	1.584E 03
13		- 34 .210	0.63	86.644	20.26666	0.22835	1.12	8.987E 02
4	3.425E 0C	-30.614	6.0	16.4.4	20,28331	0.22743	1+12	6.936E 02
15	0	- 33 • 582	9.0	443.75	21 +93330	0.22826	1.12	1.425E 03
16		- 32 + 939	0.0	E6.5+4	23+59999	0.22835	1.12	1.430F 03
17	3.140E 00	- 32 + 271	8.0	442.03	25,26666	0.22857	1.12	1.337E 03
<u>م</u>		-31 •572	8.0	437+81	26+9330	0.22885	1.12	1,262E 03
51	2.847E 00	-34.457	0.0	434.57	28,58331	0.23004	1.12	1.191E 03
20	2,772E 00	-33,707	8.0	431.79	30.25000	0,23005	1+12	1+091E 03
21		- 32 - 943	-0.00	433.64	31.91664	0.22993	1.12	1+082E 03
25		- 32 + 177	8	431+33	33,56331	0.22965	1.12	1.094E 03
23	2.7655 00	-31 .422	3	433.75	35,25000	0 +2 59 24	1:11	1.141E 03
24		106.46.	0.0	435.80	36,89999	0.22974	1+12	1.268E 03
25	3.302£ 00	=33 +595	9 9	641.93	38.56667	0.22906	1.12	1.341E 03
26	3.458F 00	- 32 . 919	6	443.03	40.23331	0.22843	1.12	1.427E 03
27	592E 0	- 32 • 271	်	4+3-13	41.89999	0.22793	1.12	1.552E 03
28	903E 0	-35+236	-0-9	44 2.73	43.54999	0.22879	1.12	1+5885 03
62	3.791E 00	-34.612	8	\$4.3.B3	45.21666	0.22852	1.12	1.0516 03
90	2.797E 00	-27 +419	0.00	443.50	45.25000	0.22732	1111	5.242E 02

经存收帐 矿铁矿铁铁铁铁铁铁铁铁铁铁铁铁铁铁 ACCOMPANS AND ACCOMPANS AND TOTAL FLIXAL DADATONS AND AND ACCOMPANS AND 化橡胶 拉斯格特斯 家庭原典 排死的棘 解析 经成分证券 不然 经股份分配 经条件 经条件收益 医垂形 经现代 医骨柱丛 经存款的 医多氏虫 有人有 经付款 PLOTOCO YOUR HOLD

PERIOD	PEAK FLUX	A VOITISHE	POSITION AT WHICH ENCOUNTERFOR	CHARRED	TWIL TIESE	FISED(R)	1109(1)	TOTAL FLUX
MIMBER	ENCOUNTERED	LONGITUDE	LATITUDS	ALTITUDE				ರ್ಷದ ೧೭೩೩
	000/8##MD/#	(DFG)	(OFG)	(KM)	(Saliūn)	(55/175)	(a)	ildab/č******
•	2.073F 01	-36.985	00.0-	544.06	0.30000	1 60 66 0	1.16	8.484F 04
	1.941F 01	-37.606	00.0-	540,09	2.00003	0.22093	ľ· ← •	LO dylite
ויין	1+783F 01	-38+200	00.0-	536.17	4,70000	0.22165	1.13	7.6 BR.58
4	1.626F 01	-38.767	00.0-	537.02	5.40903	0.28340		7.177E D.
ភ	1.509F 01	-35.784	00.0-	531+07	7-11566	0.230FR	14	T. 00
ĸ	1.6478 01	-36,326	00*0-	531.17	8.81557	0.22113	4 T + T	7. TACIF ON
7	1.695F 01	-35.A7A	. 00.00	812.05	10.5' 547	0.22123	1.14	FO POF4.7
τ	1.746F 01	-37.443	00.00	536.07	12.21567	0.22123	1.	7.870F 07
0	1.8917 01	-38.036	-0.09	510.07	13,01667	0.22119	رن -	RO MONO.
10	10.3816.01	138.656	00.0-	543.45	. 5.4. 6.57	0+22116	u:	# 0 5000° 6
::	2.105F 01	-35, 788	00.0-	547.73	17-34431	0.21926	1.14	CO HOEVE
12	2,2115 01	-36.456	00+0-	54.02F	19,0333	0.21940	1.1.	A.400F 01
13	2.031F 01	-40.446	00.0	549.07	20471565	0.021BR	1.16	Selper Az
4.	2.309F 01	-37+133	00.0	549.00	20,73331	0.01972	1.15	4.025F 03
15	2.2595 01	-37,806	00*6	544.47	52.43730	0.000 A	± 1.	0.24.6 31
16.	1.997# 01	-38,463	00.0	545.61	26711448	0.220A9	-1-	A. MARKE OR
17	1.862F 01	960*68-	00.0	541.03	25,6731	0.22144	1.10	9.24°F 17
€.	1.7815 01	-36+175	00.0	537.20	27,54999	0.22047	1.14	7.5946 07
19	1.740 01	-36.749	00.0	533.7A	29.25000	0.02100	1.14	7.34:6 03
50 20	1.656F 01	-37,303	00.0-	531,153	40.950.09	0.22150	1.14	7.130F 07
21	1.6290 01	-37.R46	00.0-	₹0.0FR	12. 64290	0.22196	1.10	T.070F 03
22	1.590E 01	-38+392	-0.00	512.00	34 - 34000	0+22217	٠.٠	7.234E 03
23	1,688F 01	-38,950	-0.00	00.00	36.04999	36666€0	1.19	Tenne Oa
24	1.939F 01	-36+005	00.0-	539,86	37,76566	62020-0	1.14	84 252F 03
25	1.951F 01	-36.618	00.0-	44249	70,45565	1066.0	1.14	8.966F 03
26	2.146# 01	-37.259	00.0-	545.49	41.16564	0.22011	1.15	
7.63	2.293F 01	-37,921	-0.00	549.01	42.85564	0.20024	1.13	40 FO F
5. R	2.2385 01	-38,596	00.0	540.00	14.54467	0.22054	ır.	7.7726 03
65	9.949F 00	-21.030	0.00	540.7Q	00019 * 50	0.21850	E (* 1	7.00AF 04
30	2.151F 01	-39-272	0.00	540,29	46+26566	0.28103	u' •	EO 4384.6

650KM ** 8/L ORBIT TAPE: TD8161 ** PERIOD= 1,629 **

** TABLE OF PEAK AND TOTAL FLUXES PER PFRIOD - FNERGY >5.00 MEV **

PERTOD	×	PESITION	POSITION AT WHICH ENCOUNTEDED	COUNT FORD	CREIT TIME	FIEL ((B)	L 1NE (L)	TOTAL FLUX
A CREATER A	#YCM##87SEC	CONGITUDE (DEG)	LATITURE (DEG)	ALTITUPE (KM)	(HCUPS)	(GAUSS)	(# # E)	PER ORBIT #/CM**2/ORBIT
-	1,1185 02	-38.429	00.0-	644.37	0.30000	0.21156	1.17	5.523E 04
N	1.133E 02	-40.383	00.0.	640.60	£ * 0 3333	0.21312	1.17	5.210E GA
m	1.006E 02	-38.863	00.0-	636,28	3,78333	0.21255	1.17	4.8305 04
₫	9.7575 01	40. 764	00.0-	633.28	5.51667	0.21405	1.17	4.542E 04
Ŋ	9.291E 01	- 39.195	00.0-	631.37	7,26667	0.21321	1.17	4.437E 04
۰	9.142E 01	-41.073	00.0-	631,37	00000*5	0.21444	1.17	4.447E 04
^	E 70F	-39.504	00.0-	633.29	16.75000	0.21322	1.17	4.6875 04
8)	9.780E 01	-41.405	-0.00	636.29	16.48333	0.21421	1.1e	4.927E 04
φ	1.127E 02	-39.885	00.00	640.61	14.23333	0.21279	1.17	5.351E 04
10	24E	.38.400	00.00	644.92	16,98333	0,21149	1.17	5.6818 04
11		-40.380	00.0-	647.91	17,71666	0.21244	1.17	5.948E 04
12	+237E	-36.943	-00	649.80	19,46666	0.21136	1.17	4.981 04
	.064E	-47.613	00.0-	649,97	21-16664	0.21812	1.20	2.945E 04
4	ņ	- 40.947	00.0	649.80	21.20000	0.21265	1.18	
5 1	• 239E	-39.510	00.0	647.89	25.95000	0.21183	1.17	5.8645 04
16	165E	-41.490	00.0	644.90	24.68330	0.21348	1.18	5.54 BE 04
17	691F	-40.004	00.0	640.58	26.43330	0.21287	1.17	5.1835 04
18	9.692E 01	-41.932	00.0	636.91	28.16664	0.21455	1.16	4.778E 04
51	733E	-40.385	00.0	633.27	25.91664	0.21379	1,17	4.5685 04
20	9.311E 01	-38.817	00.0-	621.37	31.66664	0.21298	1.17	4.478E 04
21	9. CR2F 01	-40.694	00.0~	631.38	36,39999	0.21418	1.17	4.457E 04
22	440E	-39,126	-0.00	633.30	35.14999	0.21299	1.17	4.642E 04
23	9.790E 01	-41.027	00.0-	636.30	36.88332	0.21395	1.17	4.908E 04
24	. C 78E	-33.507	10.00	640.63	38.63332	0.21255	1.17	S.315E 04
25	1.121E 02	-41,461	-0.00	644.39	40.36664	ö+21350	1.18	5.690E 04
56	1.255E 02	-40.003	-0.00	647.52	42.11664	0.21219	1.17	6.015E 04
27	1.239E 02	-38.566	00.0-	649.81	43,86664	0.21114	1+17	5.4595 04
26	1.257F 02	-40.569	00.0	649.80	66665*÷	0.21240	1.17	4.029E 04
	1.125F 02	-37-136	00.0	649.65	45.61664	0.21037	1.14	3,1262 04

** ERECTRON FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AB+* AFS* APS* APS* APP ARX PROCEDURE : UNITLUX OF 1972 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972, O WITH LIFETIASS: E.i.STASSINDDULDSED. WE CONTOUR TIMES:
** MAGNETIC COOPDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLAAG, MODEL B: CAINCLANDEL 193-TFPM #060 16/69 * TIMES 1970.0 **
** VEHICLE: UK-5 3/450 ** INCLINATION* 30EG ** PERIGES* 45)
** VEHICLE: UK-5 3/450 ** INCLINATION* 30EG ** PERIGES* 45)

经成本未采货表 医环节有病性安静点	
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PER 100	PEAK FLUX	PCSITION A	PESITION AT WHICH ENCOUNTERS	CENT : NOOD	ORBIT TIME	F 15L3(B)	LINF(L)	TCTAL FLUX
といいと	ENCOUNTEPED	LONGITUDE	LATITURE	ALTIFIDE				ath Acelt
	#/CM##2/SEC	(080)	(0 3 0)	(K4)	(Nanon)	(Gs OSS)	(E.D.)	11850/84#A3/#
,			;		- 1	•	-	
-	• 036E 0	- 35 - 513	6	44 3+83	0.0000	0.23557	1 • 1 3	1+575E 52
æ	1.030E 00	- 34 . 797	5 93	431.62	1 + 96667	0 +2 37 47	1.13	3.049F 02
٣	1.2135 00	-26.826	2.5	434.43	3.66657	. 0.23364	1.11	3+2505 02
∢	0	-29.702	1 . 3	432.03	5+31667	0.23221	1.11	5.050F 72
w	2.476E 00	- 32 , 584	0 - 27	430.83	6.96667	0.23044	1.12	1.0489 03
œ	LO:	* 35 . 467	40 €	43).33	£.61666	0.22867	1.12	1.554F 03
,	4.956F 00	-38.342	-1.02	43.5.27	10,26667	0+22729	1.13	2.1425 03
œ	6.400E 00	-37.590	-2 - 74	431.33	11,93333	9.22472	1.13	3+127F 63
Φ		-40.455	-3.63	433.53	13.58333	0.22506	1.13	4. 807F C4
10		- 39 • 733	-2 • 72	44.002	15,25000	0.22435		3,333F 03
11	٠	-39 • 064	. ea	445.51	16,91664	0.22630	1.13	2.642F 0Z
12	٠	-34.857	-0.45	443.23	18.59999	0.22759	1 + 1 2	1.9115 03
13		- 34 ,268	0.50	447.43	20,26666	0.23058	1+12	K+975F 02
4		-30.676	1.09	649.63	20.29331	8.89.58.0	1.12	3.067F 02
15		-30.061	2.21	443.33	21.955000	0.23247	1+1:	6.427F 32
16	1.161E 00	-25,793	2 • 93	44 . 34	23,63332	0.23385	1.1.1	20 JEJ8*8
17	ы	-35 • 915	2 93	442.72	25.25000	0.423799	1 + 1 3	3+0579 02
18	111	-27.970	2.4;	43*+23	S6.955000	0.23369	1.11	34929F 02
<u>6</u>	1.633E 00	- 30 .858	1 - 25	634.13	56 *2000	0+23260	1.11	4.CTBF 02
92		-30.137	0 - 24	4.51.53	30.26666	0.22978	1.11	7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
21	3.454E 00	-33.022	25.0-	431.33	31.01664	G • 227 AA	1.12	1.531F 03
22	4.637E 00	- 35 - 893	75 · 1-	431.23	33.56667	0.22634	1,12	2.232F 03
23	0	-38.748	-2 • 67	45 1.31	35.21666	0.22563	1.13	2,00ar 03
24	025E 0	- 37 • 9.81	-3.00	43 1. 30	36,88332	0.22418	1.13	3+356 03
25	6.924E 00	-40.853	-2 - 73	433.71	36 - 52331	0.2256	1.13	3.242# 53
56	6.124F 00	-40.158	-2 • 01	44 1.9)	40.2000	9.22695	E: #	20 PICO - C
27	33E 0	-35,928	~0 • €2	44.45	41.69333	0.22770	1 + 1 3	11. 1980 BO MBCC
29	2.838E 00	-31,740	0 - 93	443+57	43.56667	0.22017	1.12	1,114F 03
62	1.737E 00	-31 -133	2 10	447.55	45,25331	0+23233	1.12	5.354F 02
30	1.762E 00	-27,536	2 - 34	441.33	45.25050	0.23196	1 - 1 2	1,5076 02

6) 00001

STORE FILL FOLLS XUIT ENVIRONMENT: CONTRACT AND AND STATES AND AND STATES AND ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETTES AE4, AE5, AP1, AP5, AP6, AP7 **** PROCEDURE : UNIFLUX OF 1972 ** ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1972, O WITH LIFETIMES: E.G.STASSINOPOULDSCP.VERZARIU ** CUTOFF TIMES: ** MAGNETIC COORDINATES & AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: CAINELANGEL 143-TERM POGO 10/68 * TIME= 1970.0 ** 550KM ** B/L DRBIT TAPE: T0\$247 .#* PERIOD=_ .1.594. ## ** VEHICLE : UK-5 3/550 ** INCLINATION= 3DEG ** PEPIGE= 550KM ** APUGEE=

**** ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD - ENERGY >5.00 MEV ** HERRESHERSHERSHERSHERS FIGT INCIDENCY DROTTONS

PEAK FLUX ENCOUNTERED ENCOUNT	ORSIT TIME FIELD(B) LINE(L) TOTAL FLUX PER ORBIT (HOURS) (GAUSS) (E.R.) #/CM**2/ORBIT	0.22558 1.14	2+03333 0+22502 1-13 3+10.6E 03	3.73333 0.22433 1.13 3.555E 03		7.11666 0.22166 1.14 6.916E 03	8.81667 0.21980 1.14 1.026E 04	0.50000 0.21839 1.15 1.471E 04	2.23500 0.21653 1.151.870E.04		5.60000 0.21667 1.15 1.942E 04		19.01666 - 0.22043 1.15 - 9.435E 03	20.71666 0.22442 1.16 3.552E 03	20.73331 0.22252 1.154.072E 03	22.45000 1.22423 1.14 4.218E 03	24.15664 0.22483 1.14 3.438E 03	25.86664 0.22532 1.14 3.333E 03	27.56667 0.22442 1.14 3.809E 03	29.26666 0.22242 1.14 5.196E 03	30.95000 0.22186 1.14 7.581E 03	32.64999 0.21904 1.14 1.108E 04	34+33331 0+21898 1+15 1+527E 04	36+03331 0+21734 1+15 1-880E 0A	37.73331 0.21698 1.16 1.995E 04	39-43330 0-21808 1-16 1-77E 04	41.14999 0.21863 1.15 1.366E 94	42.86664 0.22035 1.15 9.121E 03	44.58331 0.22238 1.14 4.924E 03	44.64999 0.22181 1.12 1.422E 03
PEAK FLUX ENCOUNTERED B-181E 00 C-33.489 C-826 00 C-30.546 C-94 C	_							-	-	_	-	-																		549.47 44.
PEAK ENCOUNTERED 8-18181 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DN AT WHICH ENC UDE LATITUDE) (DEG)								1	•												•								2,11
				•	1				•	•		_	_	_	_					_	_	_	· 	_	_		•		_	-21-144
	PERIOD PEAK FLU NUMBER ENCOUNTE		7.820è		1 +0 325	1.500E	2 • 0 29≅	2 • 8 8 4 E	3.5426	4 + 0 USE	4.0925	3.442	2+3565	1 + 3226	1.5552	1+088E	8.626E	7.927c	9.167	1 • 1 70E	1.6308	3+1+3E	2.566	3.009E	30000	3+774E	3+128E	2.207E	1.4656	5.953E 00

PERIOD	PEAK FLUX	POSITION A	POSITION AT WHICH ENCOUNTERED CONSISTING	COUNTERED	ORBIT TIME	FIELD(B)	LINE(L)	TOTAL FLUX
	#/C&**2/8EC	(066)	(0=0)	(KM)	(HOURS)	(GAUSS)	(E.R.)	#/CM##2/0RBIT
-	5.346E 01	-35,015	2.82	643.85	0.31667	0.21560	1.16	2.526E 04
c)	4.6815.01	-33.487	2.96	639.46	2.06667	0.21655	1.16	2.214E nA
'n	5.149E 01	-35,385	2.51	635+82	3.80000	0.21679	1.16	2.412E 04
9	6.221E 91	-37,296	1.60	632+9R	5.53333	0.21589	1.17	3.085E 04
មា	8.564E U1	-39.197	0 • 39	631,43	7,26667	0.21418	1.17	4.402E 04
ψ	1.164E 02	-41.110	-0.99	631,64	2000000	0.21220	1.17	6.386E 04
^	1.5655 02	-43.012	-2.00	633.01	10.73333	0.21052	1.17	8.843E 0A
æ	1.920E 02	-44.903	-2.75	635,85	12.46667	0.20956	1.18	1.090E 05
ø	2.250E 02	-46. 795	-3.00	639.47	14.25000	0+21051	1.18	1+176E n5
01	165E	-45,272	-2.61	643.84	15.95000	¢.2095\$	1.18	1.080E 05
11	1.850E 02	-43.810	-1.59	647.48	17.70000	0.21078	1+18	8.547E 04
12	1,2555 02	-42.404	-0.20	649.59	19,45009	0.21318	1.16	5.374E 04
13	3,695E 01	-21.833	0.94	649.87	19.54999	4.20.997	1.14	2.016E 04
14	8.960E 91	-37+590	1,41	649+59	21,21666	0.21406	1.17	2,969€ 04
5.	6.167E 01	-36-147	2.50	647.08	22,95666	0.21612	1.17	2.881E 04
16	5.186F 01	-34.659	2.98	643.83	24.71666	0.21682	1.16	2.411E 04
17	4.848E 01	-33.130	2.76	639.46	26,46665	0.21586	1+16	2,361E 04
13	54792E 01	-35,042	2.05	635+85	28.20000	0.21537	1.16	2.779E 04
<u>.</u>	7.2745 01	-36.950	16.0	633.00	29+9330	9-213-0	1.16	3.7375 04
50	9.734E 01	-38.878	-0.37	631.52	31.66664	6+21210	1.17	5+349E 04
21	1,3435 02	-40.785	-1+58	631.54	33,39999	C.21030	1.17	7.543E OA
22	1.702E 02	-46.125	-2,39	632,75	35.11664	0.21171	1.18	9,7285 04
23	1.9988 02	-44.549	-2.96	635,89	36.86664	0.20890	1.18	1.127E 05
54	2.125E 02	-46.439	-2.88	639.47	38,59999	0.21005	1+18	1.1025 05
52	1.9385 02	-44.929	-2.15	643.79	46.34999	0.21047	1.18	9.413E CA
25	1.5069 02	-43.486	06.0-	647.45	42,09999	0.21233	1+18	7.0535 04
27	1.353E 02	-38+655	0.75	649.65	43.85554	0.21305	1.17	4.562E 04
₽.	6.04CF 31	-42.681	1,89	649.67	45.59999	0.21750	1.18	2.109E 04

1.8555 04

1 . 17

0.21544

45.51664

649.53

2.03

-37.248

7,1196 01

TCTAL FLUX PER CREIT	4/CM**2/0981T	4.917E 03	4.463E 03	3.524F 03		Ċ	3.176F 03	3+209F 03	3.5808 03			5.236E 03			1.209E 03							3.224F 03		3.266F 03	3,7450 03	4.3455.03			6.022E 03	5.322F 03	9.047E 02
LINE(L)	(E.R.)	1.16	1.16	1.15	1.16	1.16	1.16	1.15	1.15	1.16	1.16	1.16	1.16	1.17	1.12	1.17	1.16	1.16	1.16	1.15	1.15	1.15	1.16	1.16	1.15	1+17	1+16	1,16	1.16	1.17	1.11
F15C0(8)	(GA USS)	0.23717	0.23696	0.23677	0.23984	0.23938	0.23875	0.23793	0.23696	0.23935	0.23822	0,23715	0.23623	0.23495	0.22743	0.23334	0.23793	0.23765	0.23744	0+23722	0.23691	0.23644	0.23909	0.23821	C . 2 3 7 2 0	0.23961	0.23847	0.23743	0.23654	0.23934	0.22732
EMIT TIMPO	(HOURS)	0.25000	1.91667	3+56333	5.23333	00005*9	4.56667	10.23333	11.90000	13,55000	15.21667	16 685332	15.54999	20,000	20,425.331	21.66664	23.53331	25,2000	26.86664	28.53331	30,005.05	31.86664	32.51666	35.18430	36.84300	36.50000	46,16660	41,37331	42.50000	45.14999	44.25000
460UVF #460 #04 I I I I I	(K-4)	445.43	4+1.51	437.23	434.15	431.55	433.52	4.31.55	44415	4.37.33	4+1.51	£ 7	443.43	447.42	10.00	14.644	26.444	4++5)	4+)+31	435+25	432.E3	44.44	433.63	60.404	43 \$. 36	453.33	4+4.61	44 2 . 4.)	E 0 * 6 + +	443.37	05.4 *4
PESITION AT WHICH ENCOUNTRANCE INCOME ALTIFACE	(0)(0)	-2.9	٠ ن		10.0	0.0	3.0	8.4	9.0	ខ្ម	C •	C) + 2-	G • 9	Ǖ5 <u>-</u>	0.0	00.0	0.0	0.0	0.03	0.0	3.8	00 - 0-	60.6	0:0	-3.03	-0.63	93 °G-	C3 • C-	S • 6-	e •	0
PESITION A	(070)	- 46 . 254	-45.622	44 4019	-47.801	-47.049	-46.293	+ 45 . 51.8	-44.756	44.5.47	- 46 . 045	-46 +273	-45 + 627	-43,594	- 30 - 614	-47.969	-47.337	-46.085	- 46 + 605	- 45 -205	144.555	-43.796	-45.547	4000	-45.137	- 48 - 025	-47 +331	-46.567	- 46 + 327	966. 44-	-27 .416
PEAK FLUX FNCOUNTERED	*/C***2/SEC	2.0165 01	37 7 E	-	4005	1.3778 01	1.233E 01	1.3159 01	1.440F 01	19 E.C.	1.700€ 11	2.060E 01	2.233F 01	2.4135 01	4+182E 00	2.279E 01	2.307F 91					1.225	3025	32.5E		6 525	•		2.448F 71	2.330E 01	221F
OFF IOP OFF WIN	•	-	6:	M	4	ŧΩ	£	4	ar.	ij	10		15	13	14	<u></u>	91	17	a.	e H	20	6.	25	. 6	· 4	· 6	50	. V.	9.	ڻ ر	30

550KM ** B/L ORRIT TAPE: TORIGI ** PERIOD= 1.594 ** ** VEHICLE : UK-5 0/550 ** INCLINATION= ODEG ** PERIGEE= 550KM ** APDGEE=

中国中央建筑的建筑中央的建筑的设置, IDS CNIRGY DROTONS 非常有效的存储的经验的经验的现在分词

** TARLE OF PEAK AND TOTAL FLUXES PER PERIOD - FNERGY >-100 MEV **

RUNBER		MOSITION A	POSITION AT WHICH ENCOUNTEPED	COUNTRIED	SWIL LIBOU	#IELD(B)	(LVPCL)	TOTAL FLUX
	ENCOUNTERED	LONGITUDE	LATITUDE	ALTITUDE				PER ORBIT
	#/CM*#2/SEC	(990)	(DEG)	(KX)	(HONS)	(GAUSS)	(£.0.)	118a0/c**MO/#
	2.938E 02	-51.058	00.0-	545.24	.0+23333	0.23133	1.20	7.6878 04
23	2.732F 02	-51.696	00*0-	542,58	1.93333	0.23233	1.20	7.027F 04
m	0	-52,307	00.0-	538.54	3.63333	0+23335	1.20	6.494F 04
4		-52,890	-0.00	534.84	Se 33333	0.23431	1.20	6.0245 04
œ		-63,450	-0.00	532-14	7,03333	0+23515	1+20	5.412F 04
¢		-50 + 462	-0.00	530.40	8.75000	0.23231	1.10	5-647E 04
	2.195F 02	-51.006	00*0-	531.67	10.45000	0+23277	1 • 1 0	1.646E 04
ec		-51.561	00.0-	534.01	12,15000	0.23308	1.20	5.R76F 04
o.		-52-137	00.0-	537,50	13.85000	0.23329	1.20	A+531F 04
10		-52.740	-0.00	541.52	15+55000	0.23347	1+20	7.075E 0a
11		-53,371	-0.00	545,35	17.25000	0.23370	1.20	7.5POF 04
12		-50.512	-0.00	548.64	18,96566	0.23055	1.10	7.890E 04
13		-51+185	-00.00	540.04	30.6554	0.23108	1.20	7.58PF 04
14	5.027F 01	-37,133	00.0	249.00	20,73331	0.21972	1.15	1.86AF 04
15		-51+862	00.0	549.54	22.34564	0.2317R	1.20	7.245F 0A
91		-52+530	00.0	547,52	24.05567	0.23265	1.20	7.703F 04
11	2.512F 02	-53,178	00.0	544.24	25, 76565	0.23363	1.00	7.244E 04
c		-50.277	00.0	539.65	27,48331	0.23124	1.19	6.74PF 94
19		-50.868	00.0	535,78	29.19330	0.23221	C ; • 1	6.114F 04
20	2.22E 02	-51.433	00.0	532,75	30+84332	0.23308	1.20	5.74PF 04
2.1	2.284F 02	-51.982	00.0-	531,10	32,58331	0+23380	1.20	5.610F 0A
. 22	23F 0	-52.524	00.0-	531+13	34 - 24331	0.23433	1.20	S.SIGE DA
23	2.327E 02	-53.073	-0.00	532+93	15.9831	0.23470	1.20	5.010E 04
54	0 H8C	-53+640	-0.00	E35.90	37.69330	0.23494	1.20	6.357E 04
25	2.486F 02	-50.707	-0.00	540.41	39+30909	0.23158	1.10	6.86FT 04
56	. 904F 0	-51,331	-0.00	544.36	41 + 00000	0.23179	1.20	7.3A0F 04
27	3.144E 02.	-51+980	-000	547+51	45.79999	0.23210	1.20	8.005E 04
29	2.980£ 02	-52.649	00-0-	549.58	44.59000	0.23255	1.20	7.RBOE 04
53	2.832E 02	-49.812	00.0	549+92	46+21666	0.22976	1.19	6.37RF 04
30	.894E 0	-46.299	00.00	549,58	46.23331	0.22648	1 . 19	2.1116 04

TOACE IS TO STUDY WITH COMPOSITE ENVIRONMENTS: VETTES AEG. API. APS. APG. AP7 **** PROCEDURE: UNIFLUX OF 1972 *** E. ROTTON F.LUX CHOOK FLUX COMPOSITE ENVIRONMENTS: VETTES AEG. APS. APS. APS. APS. AP7 **** PROCEDURE: UNIFLUX OF 1972 ***

LCW ENERGY PROTONS ***

REMIN		LONGITION AT	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE	COUNT FRED	OREIT TIME	F1EL0(9)	LINE(L)	TOTAL FLUX
			(DEG)	(K#)	(FOURS)	(GAUSS)	(E.R.)	#/CH**2/0RBIT
- !	1.226€ 03	-48.743	00.01	645.95	0.25000	0.21934	1.20	4.177E 05
	1.159E 03	47.267	00.0-	641.81	2*00000	0.21841	1.20	3.993E 05
	3 1.109F 03	-49.203	-0.00	637.96	2.73333	0.22052	1.20	3.727E 05
•	1 1.048E 03	-47.664	-00.00	634.11	£.48333	0.21949	1+20	3.537E 05
•	5 1.011E 03	-49.552	20.0.	631.91	7.21667	0.22142	1+20	3.383E 05
•	\$ 1.C71E 03	-47.978	-0.00	631.20	8.96667	0.22005	1.20	3.403E 05
•	7 1.002E 03	- 49.858	00.0-	632.28	1 0.70000	0.22167	1.21	3.431E 05
-	B 1+173E 03	-48.301	-0.00	635.25	12.45000	0.21996	1.20	3.649E 05
•	9 1.027F 03	-50.217	-0.00	638+80	14.18333	0.22137	1.21	3,787E 05
1	0 1+204E 03	-48.718	00.01	643,24	1 5,93333	0.21957	1.20	4.0290 05
1	1.289E 03	-47,252	00.0-	647.09	17,68330	0.21790	1.20	4.250E 05
12	1 . 204F 03	-43.244	-0.00	649.27	19,41664	0.21948	1,21	4.164E 05
<u> </u>	3 1.366E 03	-47.813	-0.00	649.97	21,16664	0.21812	1.20	3.694E 05
♥ #	4 8.450E 02	-44.380	00.0	649.90	21,18330	0.21521	1.19	1.3446 05
51	5 1.185E 03	-46.379	00.0	648.59	22.91664	0.21700	1.20	4.013E 05
91	1 1 2 6 1 E 03	-48,365	00.0	645.94	24.64999	0.21900	1.20	4.2035 05
-	7 1.CS4E 03	146.889	00.0	641.79	26,39999	0.21808	1.20	3,956€ 05
18	3 1.143E 03	-48.824	00.0	637.95	28,13332	0.22018	1.20	3.740E 05
61	9.895E 02	-47.285	00.0	634.09	25.88332	0.21916	1.20	3.523E 05
20	1.C44E 03	-49.174	-0.00	631.91	31.61664	0.22107	1.20	3.435€ 05
21	1.011€ 03	-47,599	00.0-	631.20	33,36664	0.21971	1.20	3.401E 05
22	1.034E 03	64.64-	-0.00	632.29	36,09999	0.22131	1.20	3.4175 05
23	1 1.145E 03	-47.923	00.0-	635.26	36.84999	0.21961	1.20	3.6348 05
74	1.057€ 03	-45,839	-0.00	638.82	36,58331	0.22102	1.21	3.752E 05
25	1.243E 03	-48.340	-0.00	643,26	40.33331	0.21923	1.20	4.071E 0S
24	1 1.217E 03	-46.874	-0.00	647.10	42,06331	0.21757	1.20	4.261E 05
27	1,239E 03	-48.866	-0.00	649.27	42.81667	0.21914	1.20	4.258E 05
. 58	3 1.264E 03	-47.435	00.0	649.97	45.56667	0.21779	1.20	4.119E 05

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS : VETFES AE3, AP5, AP5, AP6, AP7 **** PGGEDURF : UNIFLUX OF 1972 **
** FLECTRON FLUXES EXPONENTIALLY DECAYED TO 1972, O WITH LIFET [425: E. 3. STASSINOPDULOSE3.VE2ZARIU ** CUTOFF TIMES:
** MAGNETIC COGNOINATES B AND L COMPUTED BY INVARA DF 1972 WITH ALL4AG, MODEL 3: CAINCLANGEL 143-TERM FOGO 10.68 * TIME= 1970.0 **

** VEMICLE : UK-5 3/450 ** INCLINATIONE 3DEG ** PEFIGEE= 45)KM ** APDGEE= 450KM ** 3/L DABIT TAPE: TOS247 ** PERIOD= 1.550 **

** VEMICLE : UK-5 3/450 ** INCLINATIONE 3DEG ** PEFIGEE= 45)KM ** APDGEE= 450KM ** 3/L DABIT TAPE: TOS247 ** PERIOD= 1.550 **

PER 100	PEAK FLUX	PCSITION A	PCSITION AT WHICH ENCOUNTERED	COUNT 3 160	ORBIT TIME	FIELD(9)	LINF(L)	TOTAL FLUX
NUMBER	ENCOUNTERED W/CM**2/SEC	CONGITUDE (DEG)	LATT TJDE (DE G)	ALT [F.) DE (K.4.)	(HOURS)	(64 USS)	(4,8,1)	#/CV**2/0981T
			;				· ·	
-	3.814E 00	-35.513	Ø • ₹	443.80	0.30000	0.23697	1+13	9.645F 02
CV.	3,057E 00	-34.797	2 49	431.52	1 +96667	0.23747	1+13	5.917E 02
m	2.865E 00	-34.056	2 • 54	433,59	3.63333	0+23626	1.12	6.1645 02
4	4.619E 00	-36.929		432.34	5.28333	0.23605	1.13	1.170E 03
ß	8.960E 00	-43.422	0 · 87	431,35	6.91667	0.23877	1.15	2.310F 03
ø	1.563E 01	-46.306	65 P	431.69	8.56667	0.23781	1.16	4.119F 03
^	2,501E 01	-49.186	-1 - 41	431.37	10.21667	0.23684	1.16	7.113E 03
æ	3.454E 01	-52 •055	-2 • 32	43 1.29	11 +86667	0.23636	1,17	1.090F 04
Φ	4.048E 01	-54,916	-2.87	4.35-13	13,51667	0.23687	1.17	1.333E 04
01	4.661E 01	-54+173	-2 • 55	44).27	15,19333	0.23547	1.17	1.4225 04
11	4.846E 01	-53.470	-2 • 43	44 1. 35	16.84999	0.23613	1.17	1.3465 04
12	3.688E 01	-52,825	-1 + 41	447.65	18.51666	0.23861	1+18	9*80E 03
13	2.160E 01	-48+633	. 11	443.74	20.20000	0.23937	1+17	4.849E 03
14	3.502E 00	-30.676	÷ 3	443.33	20.29331	0.22985	1.12	4.1685 02
15	9.395E 00	- 40 .851	1.75	443.26	51.89999	0.23735	1.15	2,305F 03
16	4.499E 00	-36.608	2.74	445.44	23,58331	0.23724	1.13	1.074E 03
17	3.705E 00	-35+915	8.	4+1.72	25.25000	0.23789	1.13	5.520F 02
.e.	3.400E 00	-35+194	2 63	433.54	26.91664	0.23683	1.13	7.194F 02
61	5,228E 00	-39+061	£	433.23	28.56667	0 • 5 3 6 9 9	1.13	1+219F 03
50	8.028E 00	-40.971	0.84	452.63	30.21666	0.23644	1.14	2.205F 03
21	1.424E 01	-47 -473	-0 - 12	431.23	31.84999	0.23943	1.16	4.13SF 03
25	2.265E 01	- 50 + 354	-1 . 25	43).81	33,50000	0.23951	1.17	6.766E 03
€	3,067E 01	-53.220	-2.30	431.65	35.14999	0.23800	1 + 1 7	9.899E 03
24	3.909E 01	- 52,453	-2 • 83	434,15	36.81667	0 + 2 3 4 8 2	1.17	1.245F 04
25	4.341E 01	-55,307	-2 • 93	437.22	38.46666	0.23674	1.17	1.3916.04
92	4.189E 01	-50,972	-2.41	441.96	40 -14999	0.23415	1.16	1.297F 04
27	3.720E 01	-50+311	-1 - 39	445.77	41.81667	0.23649	1.17	2.668E 03
92	2.294E 01	-46.108	0 • 14	443.86	43,50000	0.23710	1.16	S.605E 03
53	¢	-41 +918	1,62	443.83	45,18330	0.23780	1.15	2+257E 03
30	2.220E 00	-27,536	5 - 24	441.33	45.25000	0.23196	1.11	1.652F 02

LOW ENERGY PROTONS

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E OF PEAK AND TOTAL FLUXES	* * * *
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** TABLE	***
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	PEA100	PEAK FLUX	POSITION A	POSITION AT WHICH ENCOUNTERED	COUNTERED	ORBIT TIME	FIELO(B)	LINE(L)	TOTAL FLUX
!	NUMBER	ENCOUNTERED	LONGITUDE	LATITUDE	AL TI TUDE				PER ORBIT
		#/CN##2/SEC	(DEG)	(DEC)	(KM)	(HOURS)	(CAUSS)	(E.R.)	#/CM##2/0RBIT
	-	1.639E 02	-47.577	2.50	545.77	0.25000	0.23618	1.26	3.603E 94
	O\$	1+153E 02	-44.661	2.99	541.41	1.95567	P+23519	1.19	2.639E 04
	m	1+1016 02	-45.234	2.79	537.40	3.66667	0.23555	1.19	2+533E A4
	4	1.194E 02	-45,799	2+05	533,94	5,36666	0.23496	1+18	2.972E 94
	ĸ	1.836E 02	-49.902	1.09	531.92	7.05000	0.23531	1.26	4.222E 04
: !	۰	2.031E 02	-50+482	-0.22	\$30.97	8.75000	0+23162	1.19	6.16CE 04
	٠	2.745E 02	-54.588	-1431	531+52	10+43333	0.23188	1.20	8+797E 94
<u> </u> .	w	2.075£ 02	-85.151	-2.34	533.65	12.13333	0.22878	1.19	1+133E 95
	o	3+323E 02	-55.706	-2465	837+00	13,83333	2.22709	1.19	1+238E 05
	2	2.561E 02	-56.274	-2.93	540.95	15.53333	0.22717	1.19	1.3008 05
	11	3.750E 02	-56.882	-2.36	544.81	17.23331	0.22913	1.20	1.331E 95
	15	3.721E 02	-54.032	-1.16	548•25	18+95000	0.23014	1.20	1+157E 05
	13	3.109E 02	-51+230	0.33	549.86	20.66664	0.43323	1.20	7.597E 04
	4	4.665E 01	-37.195	60.1	549.83	29.73331	0.22252	1.15	8.755E 03
	15	2.230E 02	-48.423	1.74	549+27	22.39332	0.23415	1.20	4.817E CA
	91	1.446E 02	-45.567	2.71	546.62	54+04090	0.23467	1+19	3,3556 04
	17	1.326E 02	-46.181	3.00	543,11	25.73999	0.23564	1.19	2.749E C4
	16	1.2845 02	-46.768	2.70	539-12	27.50000	0.23669	1+19	2.736E 04
	19	1.474E 02	-47,349	1.88	535,37	29+20000	0.23493	1.19	3+366≘ 94
	20	1.837E 02	-51.463	0.88	532,90	30,8332	0.23608	1.20	4.716E 04
	21	2.319E 02	-52.049	-0.44	531,26	32,58331	0.23236	1.19	6.592E 04
	22	2.682E 02	-56.152	-1.51	531.19	34,25666	0.23269	1.20	9+093E 04
	23	2.970E 02	-56.705	-2.48	532+63	35.96666	0.22982	1•19	1.120E 05
. 1	54	3.1986 02	-57.247	-2+96	535.48	37,66654	0.22844	1.19	1.202E 05
	52	3.363E' 02	-57.804	-2.87	539,21	39,35654	0.22885	1.19	1.240E 05
	56	3.817E 02	-54+884	-2.08	543.73	41.08331	0.22839	1+19	1.281E 05
	27	3.361E 02	-52+036	-0.76	547.47	42.7999	0.22966	1.19	1.050€ 08
	58	2.510E 02	-49,231	C+75	549,58	44.51666	0.23166	1.19	6.925€ 04
	50	1.601E 02	-49.929	1.92	549.68	46.21566	0.23632	1.21	3.738E 04
i	30	1.809E 02	-46.416	2+07	549.65	46.23331	0.23314	1.19	1.714E 04

ANAMERICA PLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AE4, AE5, AP5, AP5, AP5, AP7 test PROCEDURE: UNIFLUX OF 1972 ** ## MAGNETIC COGROINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 3: CAINGLANGEL 143-TERM POGO 10/68 # TIME= 1970.0 ## ## VEHICLE : UK-5 3/650 ## INCLINATION= 3DEG ## PERIGEE= 650KM ## APOGEE= 650KM ## B/L DRBIT TAPE: T05247 ## PERIOD= 1.629 ## ** VEHICLE : UK-5 3/650 ** INCLINATION= 30EG ** PERIGEE= 650KM ** APGGEE+ 650KM ** B/L GRBIT TAPE: T06247 ** PERIGO= 1.629 **

*** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD - ENERGY >- 100 MEV ++

9					1	40000		20.00
NUMBER	ENCOUNTERED	LONGI TUDE	LATITUDE	ALTITUDE		14550191		PER ORBIT
	#/CM##2/SEC	(056)	(DEC)	(KM)	(HOURS)	(GAUSS)	(E.R.)	#/CH##2/ORBIT
-	8.057E 02	-45.341	2.57	645.49	0.26667	0.22405	1.21	2.589E 05
N	7,986E 02	-43,832	2.99	641.27	. 2.01567	0.22431	1.20	2.174E 05
ĸ	6.577E 02	-45,735	2.78	637.46	3,75000	0.22588	1.21	2.034E 05
đ	6.957E 02	-44.184	1491	633, 75	2+50000	0.22208	1.19	2.267E 05
ĸ	8.667E 02	-46.092	0.77	631.76	7,23333	0.22060	1.20	2.861E 05
ø	1.015E 03	-48,006	-0.51	631.27	8.96667	0.21856	1.20	3.776E 05
۲-	1.243E 03	-49.912	-1.70	632,37	10.70000	0+21663	1.20	5.026E 05
60	1.507E 03	-51.805	-2.57	634.85	12.43333	0.21545	1.20	6.155E 05
o	1.723E 03	~53.695	-2.98	630.29	14.16667	0.21551	1.20	6.782E 05
2	1.729E 03	-52+158	-2.17	642+69	15.91667	0.21444	1+20	6.815E 05
11	1.680E 03	-50.679	-1.90	646.61	17.66664	0.21535	1.20	6.324E 05
12	1.405E 03	-49.261	-0.58	649.20	19,41664	0.21776	1.20	5.225E 05
13	1.064E 03	-47,969	0.88	649.90	21.16664	0.22083	1.21	3.354E 05
14	9.466E 02	-44.440	1.06	649.84	21,18330	0.21827	1.19	9.889E 04
9	8.584E 02	-46.455	2+13	648.55	22.91664	0.22348	1.21	2.811E 05
16	7.723E 02	-44.988	2+87	545.45	24.66664	0.22466	1.21	2.400E 05
17	7,382E 02	-43,472	2.93	641.26	26.41664	0.22378	1.20	2,133E 05
. 18	7.946E 02	-45,385	2.40	637.48	28,14999	0.22437	1.20	2.198E 05
61	8+410E 02	-47,390	1.44	634+22	29,88332	0.22353	1.21	2,573E 05
20	9.812E 02	-49,220	0.21	632.05	31.61664	0.22175	1.20	3,3076.05
21	1.186E 03	-51-133	-1.06	631,33	33,34999	0.21968	1.20	4.389E 05
22	1.365E 03	-53,029	-2,13	635.19	35.08331	0.21801	1.20	5.570E 05
£2	1.463E 03	+54.908	-2.82	634.45	36.81667	0+21734	1.20	6.407E 05
24	1.693E 03	-53, 338	-2+96	638.31	38.56667	0.21526	1.20	6.657E 05
. 25	1+700€ 93	-51,811	-2.40	642+66	40.31667	0.21523	1.20	6.482E 05
56	1.518E 03	-50.351	-1.26	546.54	42.06667	0.21695	1.20	5.717E 05
27	1.182E 03	-48,943	0.18	649+12	43.81667	0.21976	1.21	4.569E 05
28	9.252E 02	-47.544	1.57	649.83	45.56667	0.22267	1+21	3.227E 05
29		-37,248	2.03	649.53	45.61664	0.21544	1.17	6.772E 04

UK-5 0/450

CIRCULAR

0 256 INCLINATION:

450 KM PER I GEE : 450 KM APOGEE: DECAY DATE: 1972. 0.

EXPOSURE ANALYSIS

PROTONS-LOW PROTONS-HIGH ELECTRONS

(E>.100MEV) (E>5.00MEV) (E>.500MEV)

PERCENT OF TOTAL LIFE-

TIME SPENT IN FLUX-FREE

88.16 % REGIONS* OF SPACE :

PERCENT OF TOTAL LIFE-

TIME SPENT IN HIGH-

INTENSITY REGIONS+ OF

× 0.0 VAN ALLEN BELTS : "

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

0:0 * 0.0 HIGH-INTENSITY REGIONS:

0.0

UK-5 0/450 CIRCULAR

0.056 INCLINATION:

450 KM PER 16EE:

450 KM APOGEE: DECAY DATE: 1572. 0.

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND

OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT

100.00 X : #-II- BNOZ BSNNI

(1.0 < L < 2.5)

0.0 OUTER ZONE -TO- :

(2.5 < L × 7.0)

93.12 %

88.09 X

0.0 * -TE- : EXTERNAL

(1 > 7.0)

TOTAL

+TIME IN INNER 20NE MAY BE SLBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION : 70.10 %

(1.0 < U < 1.1)

INSIDE TRAPPING REGION : 29.50 X

C! PARTICLE/CH##2/SEC

+ >1.E5 EL /CM##2/SEC OR 1.E3 PR/CM##2/SEC

·· (1.1 < L < 2.5)

TABLE 4	CIPCULAR	TINCLINE STORES OF DEC	APOGEE: 550 KM (Western Color) DECAY DATE: 1972.0.	* PERCENT OF TOTAL LIFETIME SORNT INSIDE AND *	* OUTSIDE THE TRAPPED-PARTICLE PADIATION BELT *	INNER ZONE -11-# : 100.00 x	(1.0 < L < 2.5)	OUTER ZOME -TO- : 0.0 %	(2.5 < L < 7.0)	EXTERNAL -TE- : 0.0 %	(1 > 7.0).	TDTAL : 100.00 %	The state of the s	** ** ** ** ** ** ** ** ** ** ** ** **		0UTSIDE TRAPPING REGION: 62.74 K (1.0 < L < 1.1)	INSIDE TRAPRING REGION : 37.26 %
TABLE			APOGEE: 550 KM DECAY DATE: 1972. 0.	A CONTROL OF THE TANALYSIS ****		PROTONS-LOW PROTONS-HIGH ELECTRONS (E>5.00MEV) (E>5.00MEV)	PERCENT OF TOTAL LIFE-	TIME SPENT IN FLUX-TREE	0	PERCENT OF TOTAL LIFE-	TIME SPENT IN HIGH-		PERCENT OF TOTAL DAILY	FLUX ACCUMULATED IN	HIGH-INTENSITY REGIONS: 0.0 X 0.0 X 0.0 X		在海峡市建设建设建设建设建设建设建设建设建设建设建设建设建设建设建设建设建设建设建设

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+ >1.E5 EL/CM++2/SEC OR 1.E3 PR/CM++2/SEC

* <1 PARTICLE/CM**2/SEC

	£ <u>2</u> .81.64†
CIRCUMAR	C18CULAR
INCLIMATION: 0 DEG	INC. INATION: 0 DEG
	REN IGEE : 650 KM
DECAY DATE: 1972. 0.	
ARXX EVED SURE ANALYSIS ****	A PERCENT OR TOTAL LIFETIME SPENT INSIDE AND &
NS-HJGH-	
) Ž
PERCENT OF TOTAL LIFE-	(1.0. £1. £ 2.51
TIME SPENT IN FLUX-FREE	DUTER 20ME -10- : 0.0 X
REGIONS# OF SPACE: 69.86 # 69.90 X 81.25 X	(2.5 < L' < 7.0)
PERCENT DE TOTAL LIFE-	EXTERNAL TE. D.D. X
TIME SPENT IN HIGH	11.5 7.01
INTERSITY REGIONS+ DE	
VAN ALLEN BEITS : 1.32 x 0.0 x 0.0 x	TDTAL : 100.00 %
·	
PERCENT OF TOTAL DAILY	
TLUX ACCUMULATED IN	*TIME IN TAMER ZONE MAY BE SUBDIVIDED AS FOLLOWS:
MIGH-INTENSITY REGIONS: 23.52 # 0.0 # 0.0 #	
	OUTSIDE TRAPPING REGION : 53.54 X
	(1.0 < L < 1.1)
	INCIDE TRADRING BEGION . A6.46 *
***************************************	٠.
# PARTICLE/CM##2/SEC</td <td></td>	
+ >1.E5 EL/CH*#2/SEC UR 1.E3 PR/CH*#2/SEC	

UK-S 37450 CLINATION: 3 DEG CLINATION: 3 DEG ERIGEE: 450 KM PUGEE: 450 KM FCAY DATE: 1972. 0. FCAY DATE: 1972. 0. FROTORS-LUB PROTONS-FIGH ELECTRONS FROTORS-LUB PROTONS-FIGH ELECTRONS	CIRCULAR CIRCULAR TINCLINATION: 3 DEG PERIGEE: 450 KM APOGEE: 450 KM DECAY DATE: 1972, 0. DUTSIDE THE TRAPPED-PARTICLE RADIATION BELT # INNER 20NE -T1-#: 100.00 K (I.0 < L < 2.5) CUTER 20NE -T0-: 0.0 K (2.5 < L < 7.0) EXTERNAL -TE-: 0.0 X
CLINATION: 3 DEG CLINATION: 3 DEG ENIGEE: 450 KM FUGEE: 450 KM ECAY DATE: 197 2. 0. FROTONS-TIONEVI (EXS. DOMEVI) (EXS. SOUMEVI) FROTONS-TOWNEYI (EXS. DOMEVI) (EXS. SOUMEVI) FROTONS-TIONEVI (EXS. DOMEVI) (EXS. SOUMEVI) FROTONS-TIONEVI (EXS. DOMEVI) (EXS. SOUMEVI)	TINCETINATION: 3 DEG PERIGEE: 450 KM ADOGEE: 450 KM DECAY DATE: 1972. 0. PETAL_LIFETIME SPENT INSIDE AND 4. PETAPPED-PARTICLE RADIATION BELT 4. O < L < 2.5) ER ZONE -TO- : 0.0 X S < L < 7.0) ERRAL -TE- : 0.0 X
ERIGEE: 450 KM PUGEE: 450 KM PUGEE: 450 KM PUGEE: 450 KM PUGEE: 450 KM XPOSURE XNALVSIS ***** PROTORS-LUB PROTONS-HIGH ELECTROKS FROTORS-LUB PROTONS-HIGH ELECTROKS ** B86.82 X 88.82 K 94.24 K	PERIGEE: 450 KM APOGEE: 450 KM DECAY DATE: 1972. 0. PTOTAL LIFETIME SPENT INSIDE AND # HE TRAPPED-PARTICLE RADIATION BELT # GR ZONE -TI-#: 100.00 K S < L < 7.0) S < L < 7.0) FERNAL -TE-: 0.0 X
ERIGEE: 450 KM PUGEE: 450 KM ECAY DATE: 1972. 0. KPOSURE KNALYSIS **** PROTOUS—TEYLOREY) (EYSOUMEY) BB.62 X 88.62 X 94.24 X	PERIGEE: 450 KM APOGEE: 450 KM DECAY DATE: 1972. 0. HE TRAPPED-PARTICLE RADIATION BELT # O < L < 2.5} ER ZONE -TO- : 0.0 X S < L < 7.0) ERNAL -TE- : 0.0 X
######################################	DECAY DATE: 1972. 0. P TOTAL LIFETIME SPENT INSIDE AND # HE TRAPPED-PARTICLE RADIATION BELT # GR ZONE -TI-#: 100.00 X GR ZONE -TO-: 0.0 X S < L < 7.0) ERNAL -TE-: 0.0 X
MACAURE KNALVSIS ***** ** ** ** ** ** ** ** **	DECAY DATE: 1972. 0. P TOTAL LIFETIME SPENT INSIDE AND # THE TRAPPED-PARTICLE RADIATION BELT # THE ZONE -TI-# : 100.00 X THE ZONE -TO- : 0.0 X S < L < 7.0) THERMAL -TE- : 0.0 X
PROTURS LUB PROTUNS-HIGH ELECTRONS TEX. LOGHEV) (EX. SOUNEV) (EX. SOUNEV) 68.62 X 88.62 X 94.24 X	F TOTAL LIFETIME SPENT INSIDE AND # THE TRAPPED-PARTICLE RADIATION BELT # THE ZONE -TI-#: 100,00 K THE ZONE -TO-: 0.0 K S < L < 7.0) THERNAL -TE-: 0.0 K
**************************************	HE TRAPPED-PARTICLE RADIATION BELT * HE ZONE -TI-* : 100,00 X G < L < 2.5 } S < L < 7.0 } FR ZONE -TE- : 0.0 X S < L < 7.0 }
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66.62 X 88.62 X 94.24 X	<pre>< 2.5) </pre> <pre>< 7.0) </pre>
001ER 66.62 % 94.24 % (2.5	(2.55) (2.40) (7.40)
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TOTAL TOTAL TOTAL	74L : 100+00 X
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	IN ZONE MAY BE SUBDIVIDED AS FOLLOWS:
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CIRCULAR	INCLINATION: 3 DEG	DECAY DATE: 1972. 0.	* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND	* GUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *	f .ext	INNER ZONE TI+* : 100.00 %	(1.0 < L < 2.6)	00TER ZONE -TO- : 0+€ x	(2+5 < L < 7+0)	EXTERNAL -TE- : 0+0 X	(L > 7.0)	X 00.00 X	-	· · · · · · · · · · · · · · · · · · ·	*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS: //	QUTSIDE TRAPPING REGIÓN: 62.26.X .	(1.0 < L < 1.1) Year Comment of the	INSIDE TRAPPING REGION : 37.74 X	(1.1 < L < 2.5)	No.	
CIRCULAR	INCLINATION: 3 DEG	DECAY DATE: 1972. 6.	#### SISATWAL BXDOSOBE BARR		PROTONS-LOW PROTONS-HIGH ELECTRONS	(E>+100MEV) (E>500MEV) (E>+500MEV)	PERCENT OF TOTAL LIFE-	TIME SPENT IN PLUX-FREE	REGIONS* OF SPACE : 79.41 % 79.86 % 87.60 %	PERCENT OF TOTAL LIFE-	TIME SPENT IN HIGH-	INTENSITY REGIDNS+ OF	VAN ALLEN BELTS : 0.0 % 0.0 % 0.0 %	PERCENT OF TOTAL DAILY	FLUX ACCUMULATED IN TANK TO THE TENT TO TH	HIGH-INTENSITY REGIONS: 0.0 2 0.0 X 0.0 X			计设备检查 计存储设备 化铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁	* <1 PARTICLE/CN**2/SEC	+ >1.E5 EL/C###2/SEC OR 1.E3 PR/CM##2/SEC

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	DECAY DATE: 1972. 0.	
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PERCENT OF TOTAL LIFE-	(1.0~<-1~<-2.5)	
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REGIONS* OF SPACE: 70.00 X 70.21 X 82.01 X	(2.5 < L < 7.0)	
THTENS ITY REGIONS+ OF The second sec	TOTAL : 160-60 X	
"VAN ALLEN BELTS :	· · · · · · · · · · · · · · · · · · ·	
PERCENT OF TOTAL DAILY		
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HIGH-INTENSITY REGIONS: 27.42 % 0.0 % 0.0 %	***************************************	
	OUTSIDE TRAPPING REGION : 53.40 X	
	(1.0 < L < 1.1)	
	INSTOC TRAPPING REGION :- 46.60 x	
	(1+1 < L < 2,5)	
+ <1 PARTICLE/CN++2/SEC		
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ENERGY \$ 50.0. ALTITUDE= 400.0

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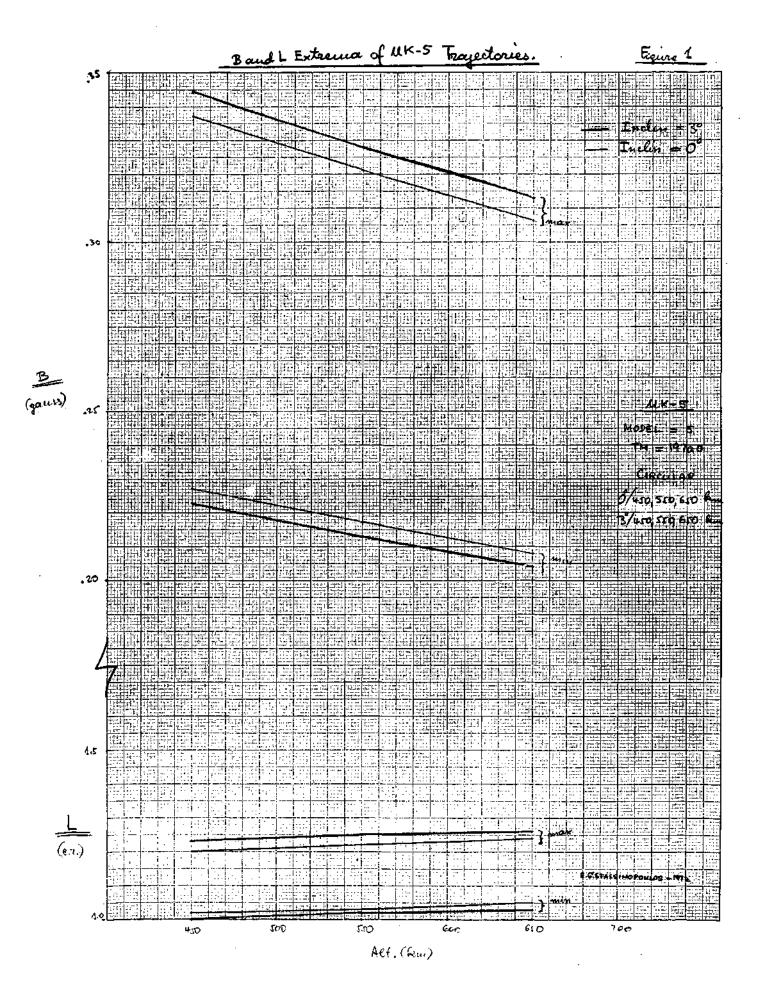


TABLE ARRANGEMENT

Computer Produced Output Tables for Orbital Flux Integrations.

Standard Production Runs with UNIFLUX Program.

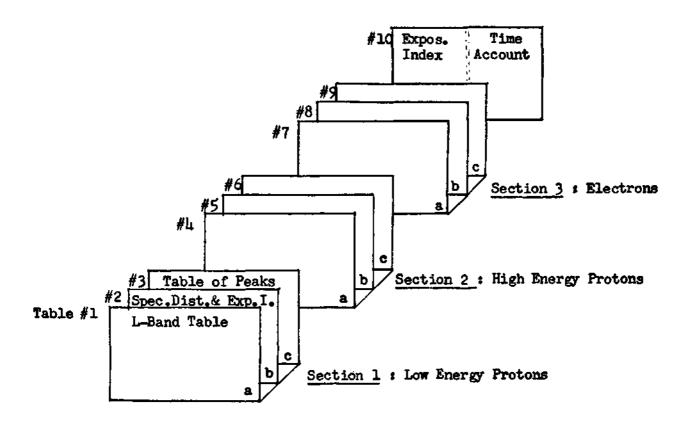


Figure 2 : Set of tables produced for every trajectory considered in a trapped particle radiation study.

PLOT ARRANGEMENT

Computer Produced Plots for Orbital Flux Integrations.

Standard Production Runs with UNIFIUX Program.

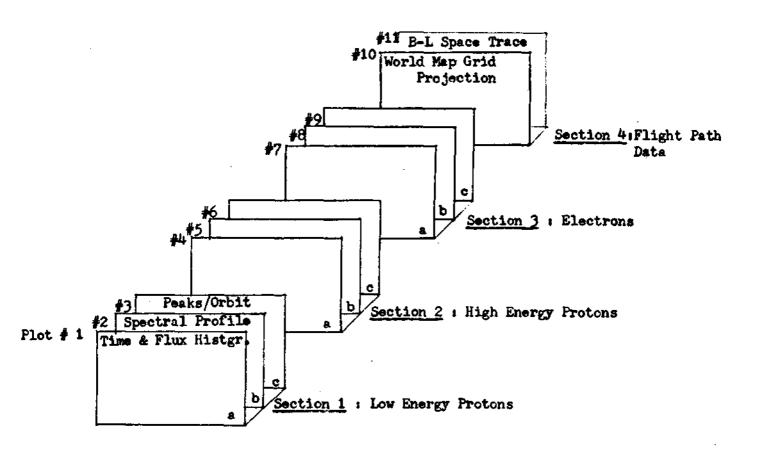


Figure 2A: Set of plots produced for every trajectory considered in a trapped particle radiation study.

